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RANSOMES
A Textron Company

Safety, Operation & Maintenance Manual

Ransomes Mastiff 91 - Honda GX390 UT2 LXE4

Series: FN4 & FP4
Product code: LDEA330 & LDEA340

⚠ WARNING

WARNING: If incorrectly used this machine can cause severe injury. Those who use and maintain this machine must be trained in its proper use, warned of its dangers and must read the entire manual before attempting to set up, operate, adjust or service the machine.

GB
United Kingdom

RJL 100 January 2015

1 CONTENTS

SECTION ..... PAGE

INTRODUCTION
Important 3
Product Identification 4
Guidelines For The Disposal Of Scrap Products 5
During Service Life 5
End Of Service Life 5
Parts Manual 6
Key Numbers 6
Assembly 7

SAFETY
How To Operate Safely 8
Safe Operation 8
Preparation 8
Operation 9
ROPS 10
Safe Handling Of Fuels 10
Maintenance And Storage 10
When You Put The Mower On A Trailer 11
Important Safety Notes 12

DECALS
Safety Decals 16
Instruction Decals 17

CONTROLS
Throttle Control 18
Operator Presence Control 18
Brake 18
Forward/reverse Gear Change 18
Cylinder Drive Clutch Lever 18
Starter Switch 18
Choke Control 19
Fuel Tap 19
Stop Switch 19

OPERATION
Daily Inspection 20
Operator Presence And Safety Interlock System 21
Operating Procedure 22
Before Starting The Engine For The First Time 23
Starting The Engine 24
Stopping The Machine 25
Stopping The Engine 25
How To Remove A Blockage From Cutting Units 26

ADJUSTMENTS
Height Of Cut Adjustment 28
Handle (Walk Behind Machine Only) 28
Cylinder To Bottom Blade Adjustment 29
Concave 29
Chain Tensioners 30
Brake 30
Clutch Controls 30
Removing The Cutting Cylinder And Bottom Blade Assembly 31
Removing The Landroll Assembly 31
Balance Bar (Walk Behind Machines Only) 32
Seat (Steering Seat) 32
Steering Control Cable (Steering Seat) 32
Testing Gear Selection 33
Adjusting Gear Selector 33

SECTION ..... PAGE

MAINTENANCE AND LUBRICATION
Maintenance & Lubrication Chart 36
Lubrication 38
Engine 38
Machine 39
Apply Chain Lubricant 39
Apply Engine Oil 39
Gearbox 40
Landroll 40
Maintenance 41
Cooling Fins And Air Intake 41
Air Cleaner 41
Battery 42
Charging The Battery 42
Clean Fuel Filter 43
Spark Plug 43
Engine Maintenance 43

PROBLEM SOLVING
Problem Solving General 44

SCHEMATICS
Electrical Circuit 46

TORQUES
Torques 48

SPECIFICATION
Engine Specification 49
Dimensions & Weights 49
Machine Specification 50
Vibration Level 51
Noise Level 52
Slopes 52
Cutting Unit Specification 52
Cutting Performance 52
Recommended Lubricants 53
Accessories 53
Certificates Of Conformity 54

GUARANTEE
Warranty 60
Service 60

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2.1 IMPORTANT

The Ransomes Mastiff is a petrol-engine chain driven Cylinder mower. The cutting cylinder is chain driven. An OPC safety system is fitted.

IMPORTANT: Follow the maintenance schedule indicated in this manual. In service performance will depend on the level of maintenance given.

This SAFETY AND OPERATORS MANUAL is part of the machine and must stay with the machine.The suppliers of all machines must keep the documentation that comes with the machine.You must use the machine to cut the grass only and not for any other purpose. The correct conditions of operation, service and repair are shown in the Service Manual.

ALL operators **MUST** read through this manual and understand the Safety Instructions, controls, lubrication and maintenance procedures.

Make sure that you obey all safety and road traffic regulations.

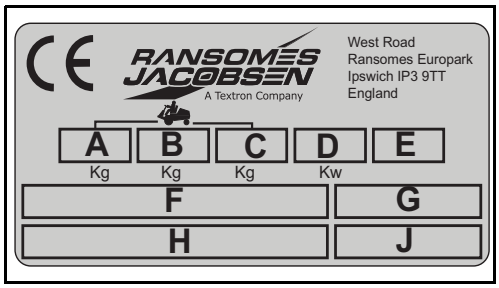
You must not make any changes to the machine that the manufacturer does not approve. This type of change can release the manufacturer from the liability for any damage or injury.

Discard worn parts as shown by local environmental regulations. To remove from the machine from operation, follow the guidelines in this manual for the removal of the machine from use.

Use only Ransomes Jacobsen Genuine spare parts to make sure that European conformity is controlled.

2006/42/EC
These instructions are the Original instructions confirmed by Ransomes Jacobsen Limited

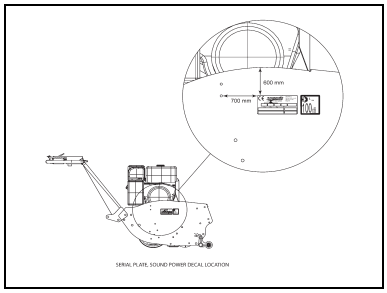
2.2 PRODUCT IDENTIFICATION



A Maximum front axle load in Kg (for the machines driven on the highway)
B Gross weight in Kg
C Maximum rear axle load in Kg (for the machines driven on the highway)
D Power in Kw
E Date code
F Machine type
G Product code
H Product name
J Serial number

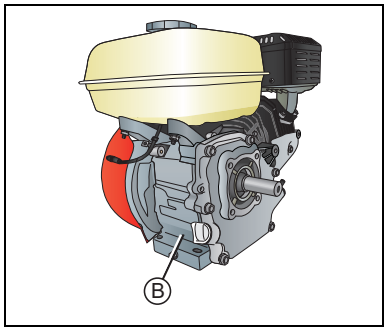
Location of Serial number plate

The serial number plate (A) is found on the side plate.



Engine Identification

Serial number plate (B) is found next to the oil-level dipstick.



2.3GUIDELINES FOR THE DISPOSAL OF SCRAP PRODUCTS

2.3.1 DURING SERVICE LIFE

Used oil, oil filters and engine coolant are hazardous materials. Follow the recommended procedures for their safe disposal.

If a fluid leaks, contain the spill to make sure that the leak does not flow into the ground or drainage system. Follow the local laws to make sure that leaks are controlled.

Follow the maintenance procedures in this manual to make sure that any damage to the local environment is controlled safely.

When the machine completes its full-service life, the following actions must be taken.

2.3.2 END OF SERVICE LIFE

These guidelines must be used with applicable Health, Safety and Environmental laws. Always use the approved local waste disposal and agencies for recycled materials.

- Park the machine in a location to use all of the necessary lifting equipment.
- Use correct tools and Personal Protective Equipment (PPE) and take instruction from the technical manuals applicable to the machine.
- Remove and store correctly
  1. Batteries
  2. Fuel
  3. Engine coolant
  4. Oils
- Disassemble the structure of the machine and refer to the technical manuals. Give attention to parts that have mechanical pressure or tension applied to the part in the machine, i.e.the springs.
- Any parts that continue to have a service life must be separated and returned to the parts department.
- Any parts that are worn must be separated into the material groups and removed according to the agencies for the recycled materials that are available. Common types:
  - Steel
  - Non ferrous metals
    - Aluminum
    - Brass
    - Copper
  - Plastic materials
    - Identified
    - Can be recycled
    - Can not be recycled
    - Not identified
  - Rubber
  - Electrical and Electronic Components
- If an item is not easily separated into different material groups, the material must be added to the “General discarded materials” area.
- Do not burn discarded materials.

The machinery records must show that the machine is not in operation and is discarded. Supply this serial number to Ransomes Jacobsen Warranty Department to close their records.

2.4 PARTS MANUAL

In compliance with the ISO14001 standard, Ransomes Jacobsen Limited does not send a paper parts manual with every product.

The parts manuals are available on-line or from Ransomes Jacobsen.

1. Website – www.ransomesjacobsen.com. Select the “”GENUINE PARTS” tab followed by the “ON-LINE PARTS LOOK-UP” tab. You now have access to Parts drawings and lists to help with the identification of spare parts.

2. Website – www.ransomesjacobsen.com. Select the “GENUINE PARTS” tab followed by the “MANUALS” tab. You now have access to a PDF version of the parts manual.

3. Complete the form included in the technical manual pack supplied with the machine for one of the two options below
   a. A disc that contains an electronic copy of the Parts Book.
   b. A paper copy of the parts manual.

2.5 KEY NUMBERS

Record the key numbers shown below:

Starter Switch:- - - -

2.6 ASSEMBLY

a. Remove the sides and top of the container from the mower. Leave the mower on the base.

b. Remove the plastic cover and cable ties that hold the handles in position. assembly the handle assembly (A) to the primary frame.

c. Fit the top of the handles (B) and tighten the clamps (C).

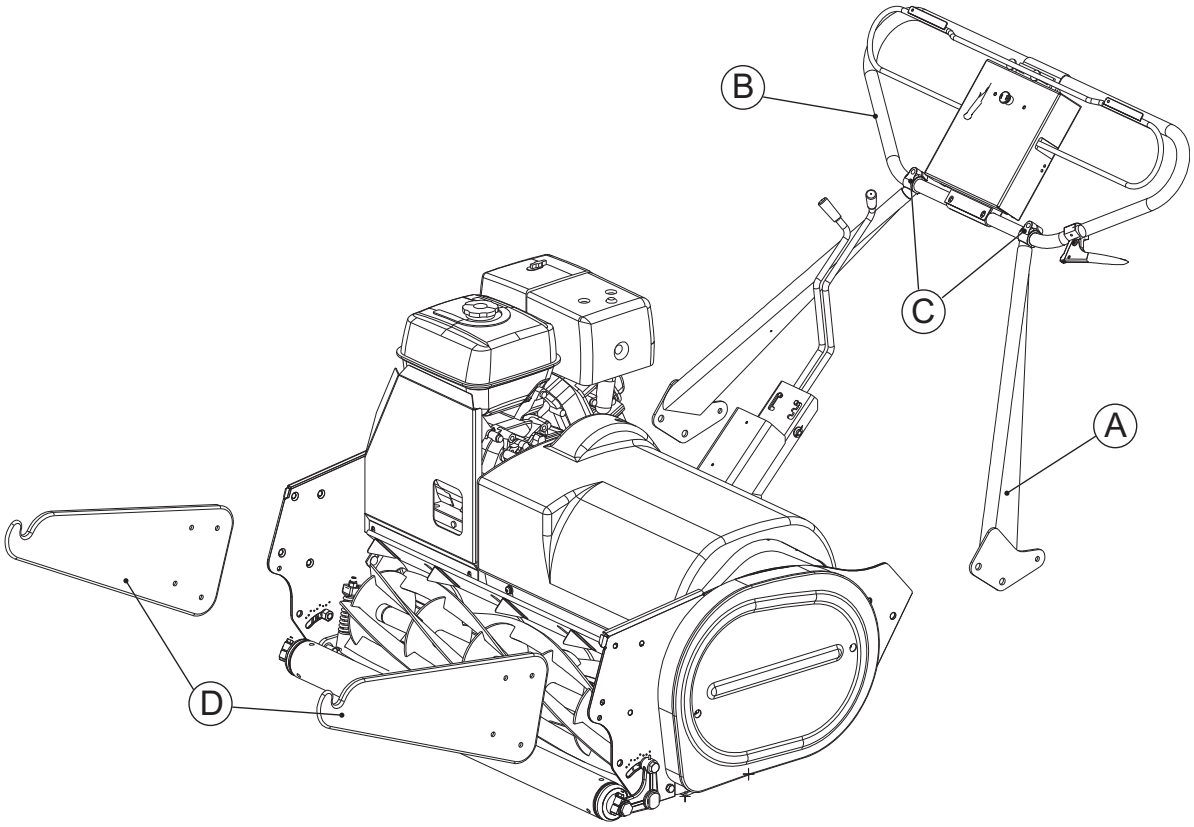
d. Fit the two grass box arms (D) to the frame with the hardware supplied.

Some tools are needed for assembly.

a. Remove the chocks and carefully move the mower from the pallet base.

b. Discard the container according to the applicable local environmental requirement.

NOTE: Refer to the OPERATION Chapter before you start the mower for the first time. All operators MUST read through this manual and understand the Safety Instructions, controls, lubrication and maintenance procedures before any use



3.1 HOW TO OPERATE SAFELY

⚠ WARNING

EQUIPMENT OPERATED INCORRECTLY OR WITHOUT TRAINING CAN BE DANGEROUS.

Know the location and correct operation of controls. Operators without experience must receive instruction from another person that knows the correct operation of the equipment before you operate the mower.

Only use parts, accessories and attachments approved by Ransomes Jacobsen.

3.2 SAFE OPERATION

a. Read the Operator's Manual and other training material. If the operator or technician can not read this manual, the owner is responsible to describe this material to the operators and technicians. Manuals in additional languages may be available on the Jacobsen or Ransomesjacobsen website.

b. Read all of the instructions for this mower carefully. Know the controls and the correct operation of the equipment.

c. Children or persons who do not understand these instructions must not use the mower. The local regulations can limit the age of the operator.

d. Never use a mower near persons, including children or animals.

e. Remember that the operator or owner is responsible for accidents or hazards that occur to other persons or their property.

f. Never carry passengers.

g. Never allow persons to operate or service the mower or its attachments without correct instructions.

h. Do not operate equipment while tired, sick or after you use alcohol or drugs.

3.3 PREPARATION

a. When you operate the mower, wear correct clothing, slip resistant work shoes or boots, work gloves, hard hat, safety glasses and hearing protection. Long hair, loose clothing or jewelry can be caught in moving parts.

b. Do not operate the equipment with the Interlock System disconnected or the system does not operate correctly. Do not disconnect or prevent the operation of any switch.

c. Never operate equipment that is not in correct order or without decals, guards, shields, deflectors or other protective devices fastened.

d. Inspect the mower before you operate the mower. Check the tire pressure, engine oil level, the radiator coolant level and the air cleaner indicator. Fuel is flammable. Use caution when you add the fuel to the mower.

e. Operate the mower in daylight or in good artificial light. Use caution when you operate the mower during bad weather. Never operate the mower with lightning in the area.

f. Inspect the area to select the accessories and attachments that are needed to correctly and safely do the job. Only use parts, accessories and attachments approved by Jacobsen.

g. Be careful of holes in the terrain and other hazards that are not visible.

h. Inspect the area where the equipment is operated. Remove all objects you can find before you operate. Be careful of obstructions above the ground (low tree limbs, electrical wires) and also underground obstacles (sprinklers, pipes, tree roots). Enter a new area carefully. Look for possible hazards.

i. Inspect the cutting system before you start the mower. Make sure the blades are free to rotate. When you rotate one blade, other blades can rotate.

3.4 OPERATION

a. Never operate the engine without enough ventilation or in an enclosed area. The carbon monoxide in the exhaust fumes can increase to dangerous levels.

b. Never carry passengers. Keep other persons or animals away from the mower.

c. Disengage all drives and engage the parking brake before you start the engine. Only start the engine with the operator in the seat. Never start the engine with persons near the mower.

d. Keep your legs, arms and body inside the operator compartment while the mower is in operation. Keep your hands and feet away from the cutting units.

e. Do not use on the slopes greater than the safe slope limit for the equipment.

f. To guard against over turning or loss of control:

g. Operate the mower across the face (horizontally), but not up and down on the face of slopes (vertically).

h. Do not start or stop suddenly on slopes.

i. Decrease the speed when you operate on slopes or when you must turn. Use caution when you change direction. Turf condition can change the mower stability.

j. Use caution when you operate the mower near drop-offs, ditches or embankments.

k. Be careful of holes in the terrain and other hazards that are not visible.

l. Always operate at speeds that allow you to have complete control of the machine. Make sure of your footing keep a tight grip the handle and walk. Never run when you operate the mower.

m. Use caution when you go near corners, trees or other objects that can prevent a clear view.

n. Equipment must meet the current regulations to be driven on the public roads.

o. Before you move across or operate on the paths or roads, turn off the PTO switch, lift the mowers and travel at decreased speed. Look for traffic.

p. Stop the blades when the mower is on any surface that is not grass.

q. Do not release the cut grass in the direction of persons or allow persons near the mower while in operation.

r. Do not operate the mower with damaged guards or without safety devices in position.

s. Do not change the engine governor setting or over-speed the engine. Never change or tamper with adjusters that are closed with a seal for the engine speed control.

t. Before you leave the operator compartment, for any reason:

u. Disengage all the drives and lower attachments to the ground.

v. Engage the parking brake.

w. Stop the engine and remove the key.

x. When you hit an object or mower starts to cause the vibration that is not normal, inspect the mower for damage and make repairs.

y. Decrease the throttle setting before you stop the engine.

z. Do not use this equipment for uses that the mower was not made for.

3.5 SAFE HANDLING OF FUELS

a. The fuel and the fuel vapors are flammable. Use caution when you add the fuel to the mower. The fuel vapors can cause an explosion.

b. Never use the containers that are not approved to keep or transfer fuel.

c. Never keep the mower or fuel containers near an open flame or any device that can cause the ignition of fuel or fuel vapors.

d. Never fill the fuel containers inside a vehicle or on a truck or trailer with a plastic liner. Always put the fuel container on the ground away from your vehicle before you fill the container.

e. Refuel the mower before you start the engine. When the engine is in operation or while the engine is hot, never remove the fuel cap or add fuel to the mower.

f. Refuel outdoors only and do not smoke when you add fuel. Extinguish all types of ignition.

g. The fuel nozzle must touch the rim of the fuel tank when you add fuel to the mower. Do not use a device to lock the fuel nozzle in the open position.

h. Do not over fill the fuel tank. Leave at least 1 inch (2.5 cm) below the filler neck.

i. Always tighten the fuel tank cap and container cap after you add fuel.

j. If the fuel spills on your clothing, change your clothing immediately.

3.6 MAINTENANCE AND STORAGE

a. Before you clean, adjust or repair this equipment, stop the engine and disconnect the spark plug wire. Keep the wire away from the plug to prevent the engine to start.

b. Make sure the mower is parked on a solid and level surface.

c. Never work on a mower that is lifted only by the jack. Always use the jack stands.

d. Never allow persons to service the mower or its attachments without correct instructions.

e. When the mower is parked, put into storage or left without an operator, lower the cutting device unless a positive mechanical lock is used.

f. When you put the mower on a trailer or put the mower in storage, close the fuel valve. Do not keep fuel near flames or drain the fuel inside a building.

g. Disconnect the battery before you service the mower. Always disconnect the negative battery cable before the positive battery cable. Always connect the positive battery cable before the negative battery cable.

h. Charge the battery in an area with good airflow. The battery can release hydrogen gas that is explosive. To prevent an explosion, keep any device that can cause sparks or flames away from the battery.

i. Disconnect the battery charger from the power supply before you connect or disconnect the battery charger to the battery. Wear protective clothing and use insulated tools when you service the battery.

j. Be careful and wear gloves when you check or service the cutting unit blades. Replace any damaged blades, do not try to correct a damaged blade.

k. Keep your hands and feet away from parts that move. Do not adjust the mower with the engine in operation, unless the adjustment needs the engine in operation.

l. Carefully release the pressure from components with stored energy.

m. Keep the mower and the engine clean.

n. Allow the engine to become cool before storage and always remove the ignition key.

o. Keep all nuts, bolts and screws tight to make sure the equipment is in safe condition.

p. Replace worn or damaged parts for safety. Replace damaged or worn decals. Only use parts, accessories and attachments approved by Jacobsen.

q. To decrease the fire hazard, remove materials that burn from the engine, muffler, battery tray and fuel tank area.

r. Disconnect the battery and controller connectors before you weld on this mower.

3.7 WHEN YOU PUT THE MOWER ON A TRAILER

a. Be careful when you load or unload the mower on a trailer. Trailer must be wider than the mower and can carry the weight of the mower.

b. Use a full-width ramp to load or unload the mower on a trailer.

c. Use straps, chains, cables or ropes to fasten the mower to the trailer. Both front and rear straps must be sent down and toward sides of trailer.

d. Make sure that all latches are correctly fastened.

3.7.1 Important Safety Notes

This safety alert symbol is used to alert you to possible hazards.

DANGER **Indicates an imminently hazardous situation which, if not avoided, WILL result in death or serious injury.**

WARNING Indicates a potentially hazardous situation which, if not avoided, **COULD** result in death or serious injury.

CAUTION Indicates a potentially hazardous situation which, if not avoided, **MAY** result in minor or moderate injury and property damage. It may also be used to alert against unsafe practices.

NOTICE Indicates a potentially hazardous situation which, if not avoided, **MAY** result in property damage. It may also be used to alert against unsafe practices.

Some illustrations in this manual can show shields, guards or plates removed for clearness. This equipment must not be operated without these devices correctly fastened in position.

WARNING

The Operator Presence Control (OPC) on this machine will shut off the reel and traction drive if the operator releases the OPC.

To protect the operator and others from injury, never operate equipment with the OPC system disconnected or malfunctioning.

WARNING

1. Before leaving the operator's position for any reason:
   e. Disengage all drives.
   f. Engage parking brake.
   g. Stop engine.
2. Keep hands, feet, and clothing away from moving parts. Wait for all movement to stop before you clean, adjust or service the machine.
3. Keep the area of operation clear of all bystanders and pets.
4. Chock or block the rolls if the machine is left on an incline.
5. Never operate mowing equipment without the discharge deflector securely fastened in place.

By following all instructions in this manual, you increase the life of your machine and keep its maximum performance. Adjustments and maintenance must always be done by an approved technician.

If additional information or service is needed. Contact your Authorized Ransomes Jacobsen Dealer, who knows the latest methods to service this equipment and can give that service.

⚠ WARNING

California Proposition 65
Engine Exhaust, Some Of Its Constituents, And Some Vehicle Components Contain Or Release Chemicals Known To The State Of California To Cause Cancer And Birth Defects Or Other Reproductive Harm.

⚠ WARNING

Explosive Gases Are Released By Batteries. The Battery Contains Corrosive Acid And Supply An Electrical Current That Is High Enough To Cause Burn Injuries To The Body.

⚠ WARNING

You Must Not Use This Machine To Tow Other Vehicles.

⚠ WARNING

Ear Protection Must Be Worn When You Operate Machines With An Operator Ear Noise Level Of More Than 85 db(A) Leq.

⚠ WARNING

Vibration Exposure Limits
Exposure limits are calculated as a combination of the vibration level (magnitude) of the tool and the Daily Exposure Time (Trigger Time). E.g. A product with 5m/s² vibration can be used up to 2 hours/day to reach the EAV and up to 8 hours/day to reach the ELV.
Exposure Action Value (EAV) - Daily vibration exposure A(8) = 2.5m/s²
Where daily vibration exposure A(8) is below 2.5m/s² the risk is relatively low and no action need be taken
Exposure Limit Value (ELV) - Daily Vibration Exposure A(8) = 5.0m/s²
If several tools are use the exposure values must be combined:
Total exposure is then the combined value of the activities

⚠ WARNING

Never Mow If There Is A Risk Of Lightning Or You Hear Thunder. If You Are In The Middle Of Mowing, Stop In A Safe Place, Turn Off The Engine And Go Inside a Building.

⚠ CAUTION

Personal Protective Equipment (PPE), For Example Safety Glasses, Leather Work Shoes Or Boots, A Hard Hat, Leather Work Gloves And Ear Protection Must Be Used After The Owner/User Completes A Local Risk Assessment Of The Mower, To Prevent Injury.
Training In All Manual Operations Must Be Given By An Approved Person Before The Machine Is Used The First Time.

NOTES

4.1 SAFETY DECALS EC

A. 009034910 Read Operator's Manual.

B. 009034890 Keep a Safe Distance from the Machine.

C. 009034920 Stay Clear of Hot Surfaces.

D. 009034940 Caution Rotating Blades.

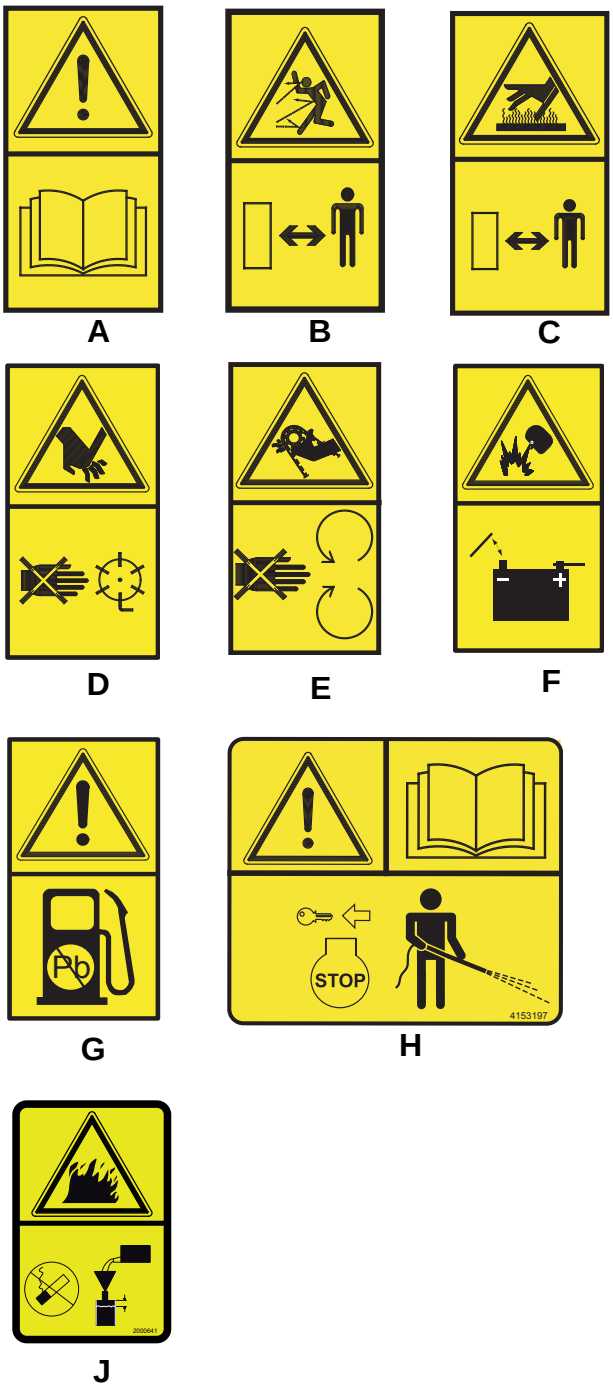
E. 009034900 Do Not Remove Safety Shields While Engine is Running.

F. 009114100 Danger of Explosion if the Battery Terminals are Short Circuited.

G. 4133706 Caution Lead Free Fuel

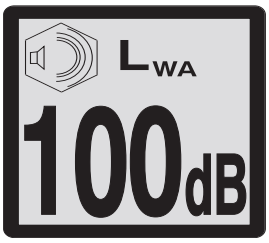
H. 4153197 Caution, Stop Engine & Remove the Starter Key Before Pressure Washing

J. 2000641 Danger, do not smoke when refueling.

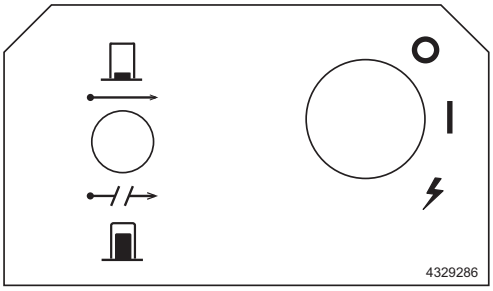


4.2 INSTRUCTION DECALS

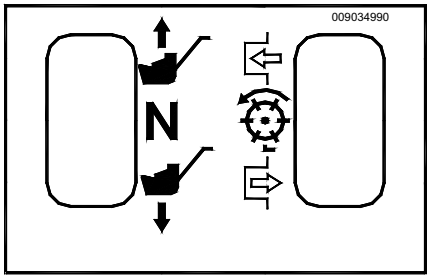
A 009034760 - Decal - Noise 100dB
B 4329286 - Decal - Ignition
C 009034990 - Decal - Forward / Reverse
D 4157021 - Decal - Throttle
E 009039700 - Decal - Parking Brake



A



B



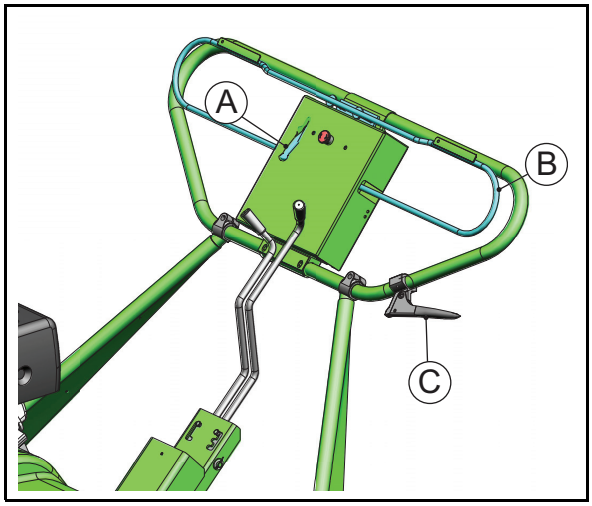
C

D

E

5.1 THROTTLE CONTROL (A)

Move the throttle lever forward to increase the engine speed which in turn engages the centrifugal clutch thus driving the machine. The direction of travel and blade engagement is determined by the gearbox selection levers noted in 5.4 & 5.5



5.2 OPERATOR PRESENCE CONTROL (B)

Pushing the OPC down on the top handlebar allows the operator to engage the transmission, forward / reverse of mower. When any of these functions are engaged releasing the OPC will stop the engine. The OPC may be released and the engine continue to run only if the transmission is disengaged

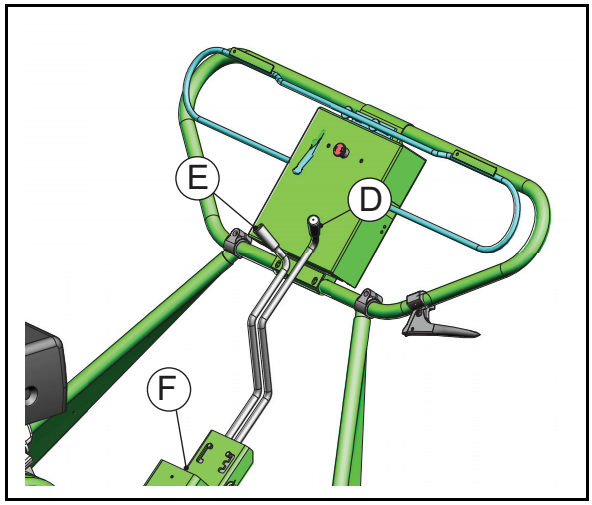
5.3 BRAKE (C)

The brake can be released when the operator is ready to move the machine. The brake may be used to slow the forward movement of the machine if necessary but the engine speed should be reduced to release the clutch or the OPC should be released to stop the engine.

5.4 FORWARD/REVERSE GEAR CHANGE (D)

To obtain forward drive the lever (B) should be pushed to the left and then down from the neutral position. It may be necessary to momentarily increase the engine speed to ease the gear into transmission.
For reverse drive the lever should be pushed to the left and pulled upwards from the neutral position.

NOTE: It may be necessary to ‘blip’ the throttle to allow the gear to engage.



5.5 CYLINDER DRIVE CLUTCH LEVER (E)

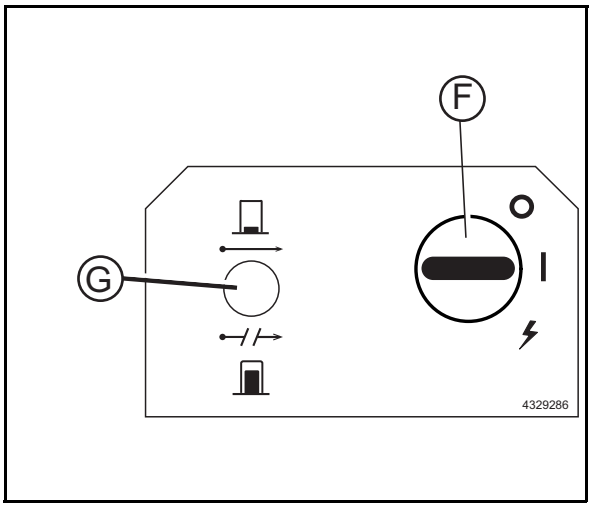
The clutch is engaged by pushing the lever (A) to the right and then down. To disengage pull the lever upwards and locate in slot at top of gate.

5.6 STARTER SWITCH (F)

This is turned clockwise to start the engine and anticlockwise to stop the engine.

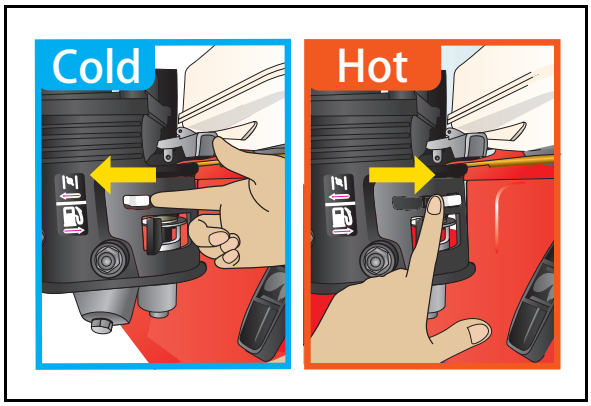
Circuit Breaker (G)

The circuit breaker protects the battery charging circuit. A short circuit or battery connected in reverse polarity will trip the circuit breaker. The green indicator inside the circuit breaker will show the breaker has been tripped. If this occurs, determine the cause of the problem. Correct the problem before resetting the circuit breaker. Push the circuit breaker button to reset.



5.7 CHOKE CONTROL

Move the choke lever to the closed position to start the engine.

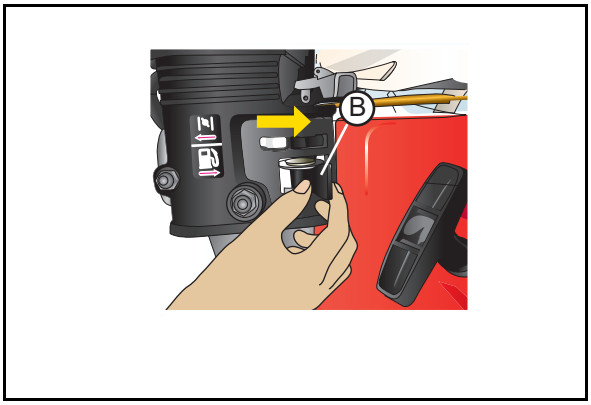


NOTE

The choke may not be needed if the engine is warm or the air temperature is high.

5.8 FUEL TAP

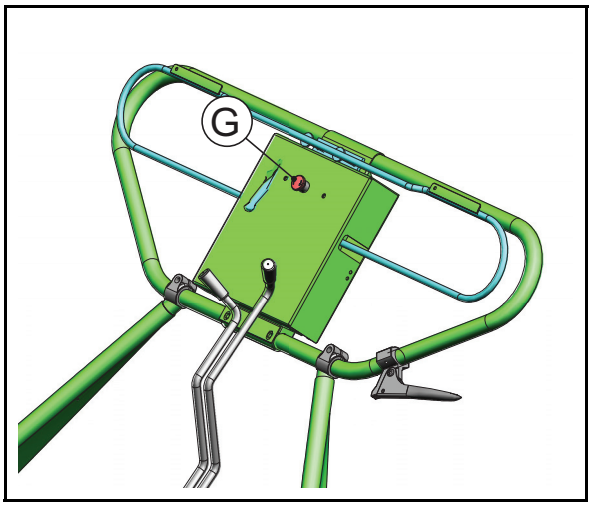
The fuel tap (B) is turned on by moving the lever to the right. The tap is in the ‘off’ position when the lever is fully to the left.



5.9 STOP SWITCH (G)

The Stop switch can be used to stop the machine if a hazardous situation occurs.

To reset, turn the ignition key to the “OFF” position and reset the stop switch by rotating the knob.



6.1 DAILY INSPECTION

⚠ CAUTION

THE DAILY INSPECTION SHOULD BE PERFORMED ONLY WHEN THE ENGINE IS OFF AND ALL FLUIDS ARE COLD. LOWER IMPLEMENTS TO THE GROUND, ENGAGE PARKING BRAKE, STOP ENGINE AND REMOVE IGNITION KEY.

1. Perform a visual inspection of the entire unit, look for signs of wear, loose hardware and missing or damaged components. Check for fuel and oil leaks to ensure connections are tight and hoses and tubes are in good condition.

2. Check the fuel supply, radiator coolant level, crankcase oil level and air cleaner is clean. All fluids must be at the full mark with the engine cold.

3. Make sure the cutting unit is adjusted correctly.

4. Test the operator presence and safety interlock system.

6.2 OPERATOR PRESENCE AND SAFETY INTERLOCK SYSTEM

1. The engine can be started but drive cannot be engaged until the operator presence system has been engaged. When the primary drive is engaged the machine will move forward, the cylinder will only rotate if the cylinder clutch is engaged. When the operator presence lever is released the engine will stop.

⚠ WARNING

Never operate the equipment with the operator presence & safety interlock system disengaged or malfunctioning. Do not disconnect or bypass any switch.

2. Perform each of the following tests to ensure the operator presence system is functioning properly. Stop the test and have the system inspected and repaired if any of the tests **fail** as listed below:

- With the engine running, the gears in the neutral position and the operator presence lever released, the machine should not move forward and the cylinder should not rotate.
- Engage the operator presence lever (see 6.1) and engage the cylinder clutch, once the machine is moving release the operator presence lever. The machine and all drives should come to a stop, the engine will also stop running.

3. Refer to the chart below for each test and follow the check (✓) marks across the chart. Shut engine off between each test.

   Test1: With engine running and neutral gear selected depress emergency stop button. The engine should stop running and all functions will be disabled until the emergency stop is reset.

   Test 2: (This simulates normal cutting operation) With the engine running, operator presence lever engaged, the forward gear selected and the cylinder clutch engaged. The cylinder should rotate and the machine will be driven forward.

   Test 3: With the engine running and the cylinder clutch engaged. Releasing the operator presence lever will stop the engine and all drives.

   Test 4: (This simulates transportation of the machine) With the engine running and the cylinder clutch disengaged and the transmission engaged. When the operator presence lever is engaged the cylinder will not rotate and the machine will be driven forward.

   Test 5: With all drives in neutral the engine can be started, engaging the operator presence lever should not cause the machine to move forward nor the cylinder to rotate

Test	Operator Prescience Lever		Transmission		Cylinder clutch		Cylinder Rotation		Forward Drive	
	Engage	Disengage	Engage	Disengage	Engage	Disengage	Yes	No	Yes	No
1		✓		✓		✓		✓		✓
2	✓		✓		✓		✓		✓	
3		✓		✓	✓			✓		✓
4	✓		✓			✓		✓	✓	
5		✓		✓		✓		✓		✓

6.3 OPERATING PROCEDURE

⚠ CAUTION

To help prevent injury, always wear safety glasses, leather work shoes or boots, a hard hat and ear protection

1. Under no circumstances should the engine be started with the operator presence system engaged.

2. Do not operate the machine or attachments with loose, damaged or missing components. Whenever possible mow when grass is dry

3. First mow in a test area to become thoroughly familiar with the operation of the machine and control levers.

Note: To prevent damage to the reel and bottom blade never operate the reels when they are not cutting grass. Excessive friction and heat will develop between the bottom blade and reel and damage the cutting edge.

4. Study the area to determine the best and safest operating procedure. Consider the height of the grass, type of terrain, and condition of the surface. Each condition will require certain adjustments or precautions.

⚠ CAUTION

Pick up all debris you can find before mowing. Enter a new area cautiously Always operate at speeds that allow you to have complete control of the mower

5. Never direct discharge of material toward bystanders, nor allow anyone near the machine while in operation. The owner/operator is responsible for injuries inflicted to bystanders and/or damage to their property.

⚠ CAUTION

When a trailing seat is attached always reverse at slow speed and ensure that the trailing seat does not jackknife

6. Use discretion when mowing near gravel areas (roadway, parking areas, cart paths, etc.). Stones discharged from the implement may cause serious injuries to bystanders and/or damage the equipment.

7. Disengage the cylinder drive when crossing paths or roads. Look out for traffic.

⚠ CAUTION

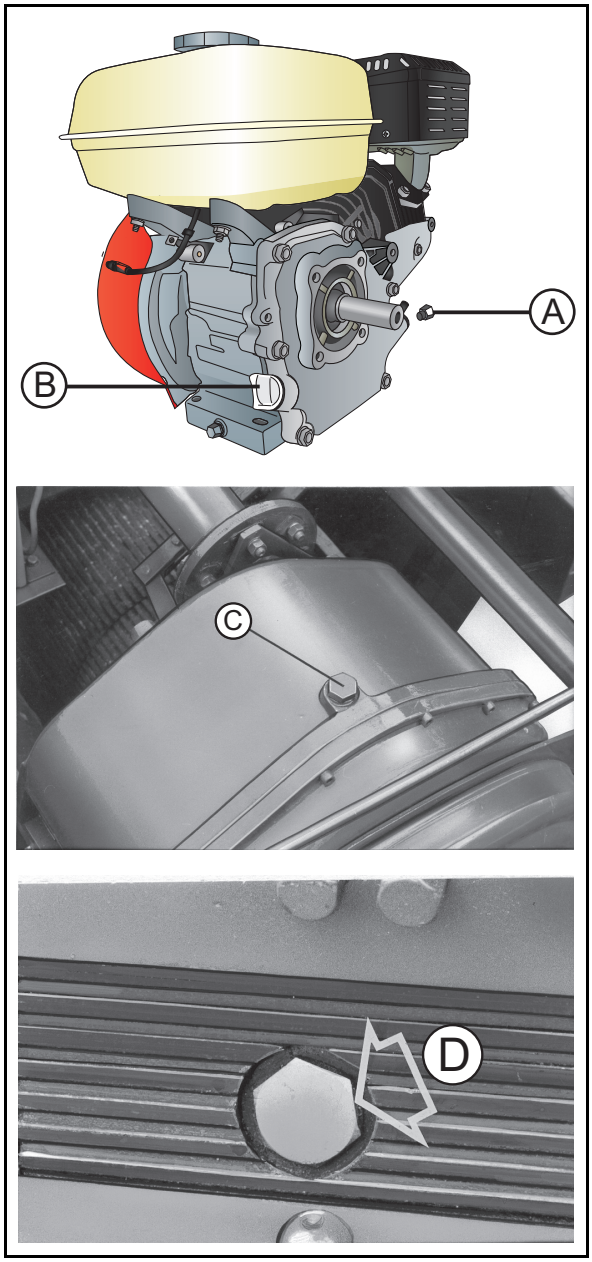
Before you clean, adjust, or repair this equipment, always disengage all drives, lower implements to the ground, engage parking brake, stop engine and remove key from ignition switch to prevent injuries.

8. Stop and inspect the equipment for damage immediately after striking an obstruction or if the machine begins to vibrate abnormally. Have the equipment repaired before resuming operation.

6.4 BEFORE STARTING THE ENGINE FOR THE FIRST TIME

1. Remove the sump filler plug (B) and with the machine on level ground fill the sump with a recommended engine oil up to the base of the threads on the dipstick (maximum level) of the filler plug.

NOTE: correct reading is obtained by replacing the filler plug completely and removing it again. Replace dipstick/ filler plug after correct level of oil is obtained.



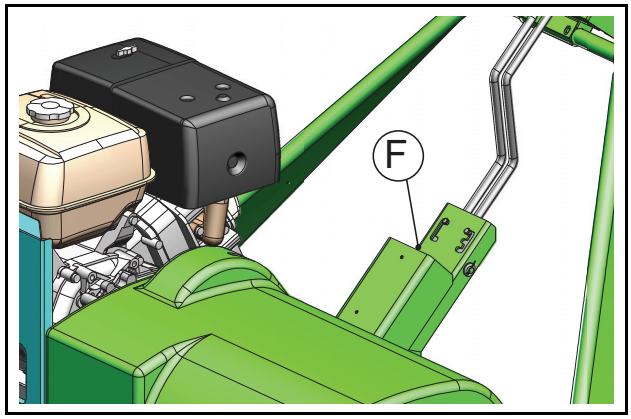
2. Remove cover from over gearbox and clutch shaft by releasing screws (two screws each side). Remove filler plug (C) and fillgearbox with oil (See section 8.1) up to the level indicated on the straight dipstick (supplied).
Replace plug when oil level is obtained.

3. Position the filler plug on the centre section of the landlord between the rear engine bearer and the main frame cross stay. Remove filler plug (D) and fill landroll with oil up to the level indicated on the cranked dipstick (supplied).
Replace plug when correct level is obtained.

4. Fill the petrol tank with unleaded petrol.

6.5 STARTING THE ENGINE

1. Electric Start
Apply the brake.Turn starter switch (F) clockwise to the first position, then turn further clockwise to the start position and engine will start. If engine fails to start within 10 seconds, wait a further 30 seconds before attempting to start the engine again.



NOTE

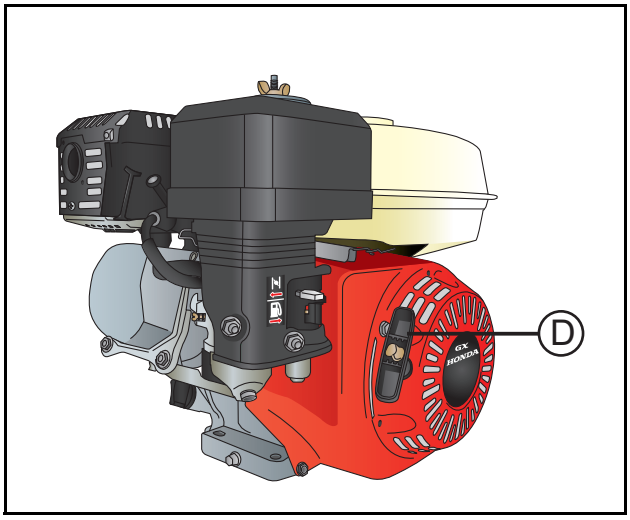
The starter switch will automatically return to the run position from the start position when released.

DO NOT turn switch to the off position as this will stop the engine. The switch acts as a cut out switch.

2. Recoil Starter (D)

(a) Pull the recoil starter handle (D) slowly until resistance can be felt on compression, continue to pull until the resistance ceases.

(b) Allow the rope to recoil slowly then pull handle sharply, the engine will then start. Failure to do this may result in the rope being broken if a backfire occurs.



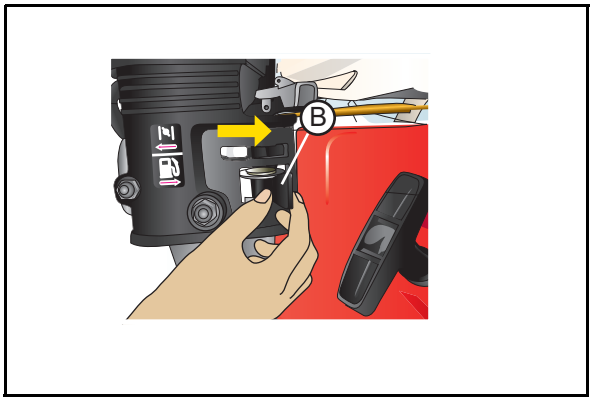
IMPORTANT

The starter rope should never be allowed to recoil sharply into its housing. The rope should recoil slowly under control to avoid breakage or damage.

Broken starter ropes should be replaced - NOT REPAIRED.

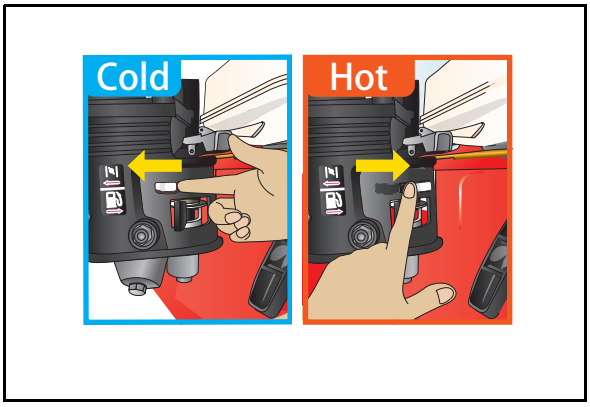
Before starting the engine, check or set the following points:

1. Check that the cylinder and landroll drive clutches are disengaged and the brake is applied.
2. Turn the fuel tap B ‘on’ by positioning the lever vertically downwards.
3. Move the choke control lever to the left for cold starting.



NOTE

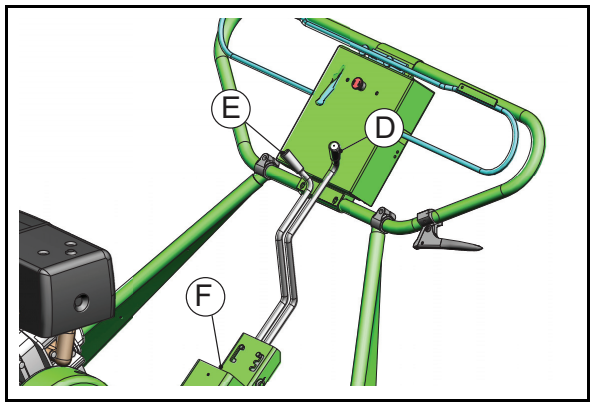
The choke may not be needed if the engine is warm or the air temperature is high.



4. Ensure starter switch is turned to first position. This only applies if using recoil starter to start engine.
5. Allow engine to warm up sufficiently before returning choke to its running position.

6.6 STOPPING THE MACHINE

1. Release the OPC and apply the brake.This is equally important when moving forward or when reversing.
2. Set the drive clutch lever (D) into the neutral (N) position.
3. Set the cutting clutch lever (E) into the disengaged position.



6.7 STOPPING THE ENGINE

1. Turn starter switch (F) to the ‘off’ position and the engine will stop.

6.8 HOW TO REMOVE A BLOCKAGE FROM CUTTING UNITS

⚠ CAUTION

It is important to note: there can be stored energy within the system that can cause the cutting cylinder to rotate when the obstruction is removed. Therefore keep your hands, feet and clothing away from cutting units at all times.

1) Disengage the power to the cutting unit.

2) Set the parking brake.

3) Move the throttle control lever to the slow position.

4) Turn the ignition key to the off position and remove the key.

NOTE

Make sure correctly selected PPE is worn before you clear the obstruction.

8) use the Ransomes Jacobsen “Cutting Unit Tool” part number 4184540 See below or stout stick, put into the cutting cylinder between the blades.

9) Rotate the cylinder with either the “Cutting Unit Tool” or “Stout Stick” until the obstruction has been removed.

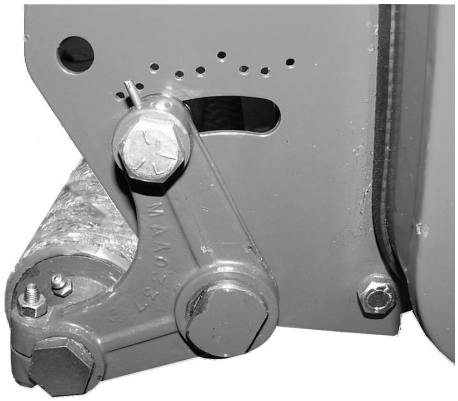
10) Inspect all the cutting surfaces for damage, when necessary replace the damaged components.

NOTES

7.1 HEIGHT OF CUT ADJUSTMENT

The cutting height is determined by the position of the front rolls in relation to the bottom blade; variation of this setting is made by adjusting the front roll:

1. Loosen the bolts securing the front roll brackets on both sides of the machine.
2. Set the roll at the required height - raise the height of cut by lowering the front roll and reverse the procedure to reduce the height of cut. Check that the setting is the same onboth sides of the machine.
3. Tighten the bolts.



NOTE

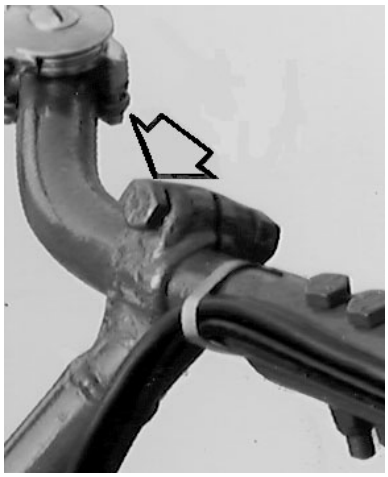
The front roll should never be set so that the bottom blade is pressing on the turf; this will damage the spiral cutters, bottom blade and the turf

7.2 HANDLE (WALK BEHIND MACHINE ONLY)

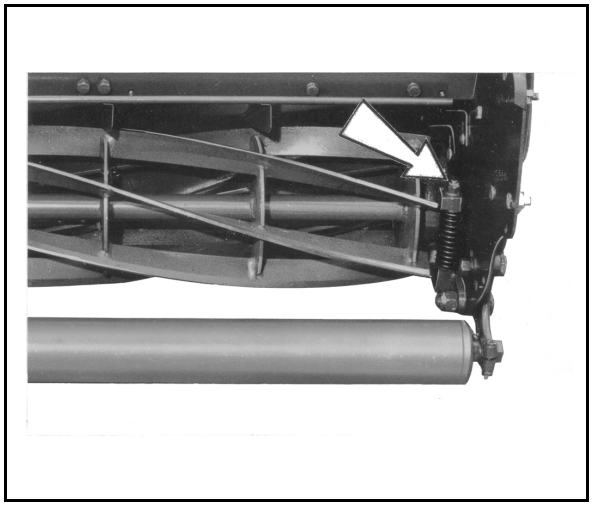
The height of the handle can be adjusted to suit the operator. Always raise the handle when fitting and using the trailing seat to give clearance for legs over undulating ground.

To adjust:

1. Slacken the clamp bolts
2. Move the handle to the required height.
3. Re-tighten the bolts.



7.3 CYLINDER TO BOTTOM BLADE ADJUSTMENT



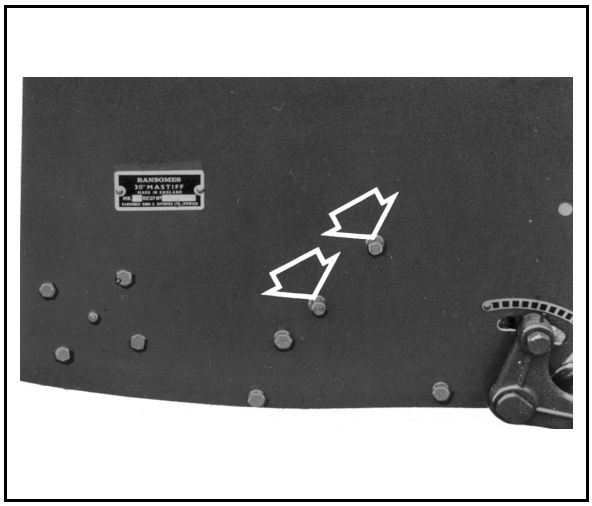
To check that the cutting cylinder is set correctly to the bottom blade: tilt the machine back, hold a thin piece of paper between the edge of the blade and spiral cutters, and turn the cylinder manually. Wear gloves and keep hands clear of the blade

The paper should be cut cleanly along the length of the bottom blade; if not, some adjustment is necessary, DO NOT OVERTIGHTEN.

Adjustment is made by turning the adjustment screws clockwise to move the cylinder towards the blade.

It is recommended that an 1/8 of turn is made alternatively to each screw, checking frequently with the paper until the correct setting is achieved.

7.4 CONCAVE



If the grass clippings do not enter the grassbox satisfactorily, the concave needs adjusting:

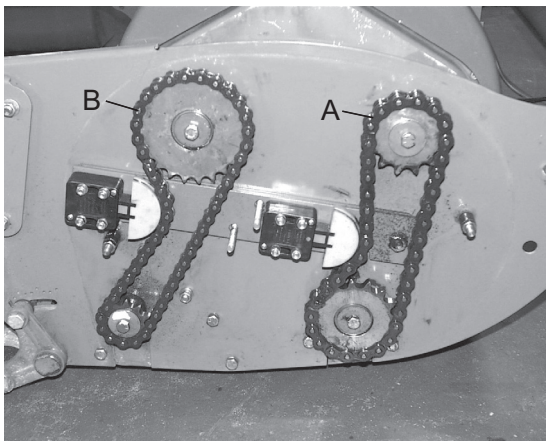
1. Release the two setscrews as indicated at each side, which secure the concave to the side frame.
2. Move the concave until there is approximately 1.5mm (1/16in) between the concave and cutting cylinder, measured as near to the centre line of the cylinder as possible.
3. Ensure that the concave aligns correctly with the bottom edge of the bottom block before retightening the setscrew.

NOTE

The concave must not touch the cutting cylinder.

7.5 CHAIN TENSIONERS

Automatic adjustment
Self adjusting Chain Tensioners need No adjustment.

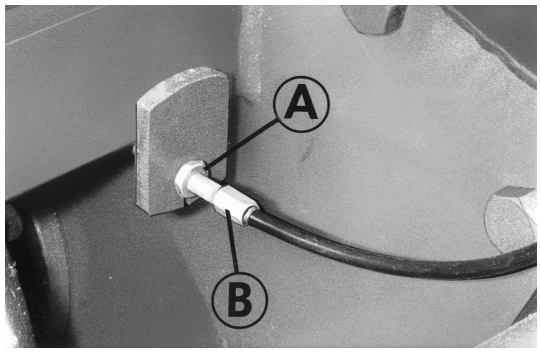


7.6 BRAKE

If adjustment is necessary:

1. Slacken the locknut (A).
2. Turn the adjusting screw (B) anti-clockwise.
3. Re-tighten the locknut.

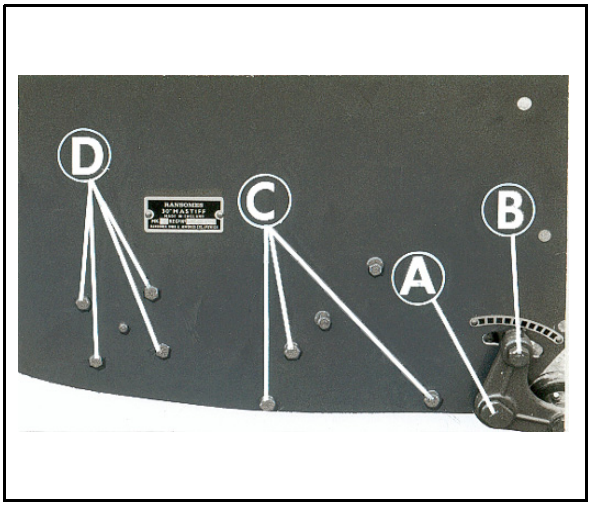
Make certain that after adjusting there is still some slack movement on the lever to avoid the brake shoes rubbing against the landroll when the brake is disengaged.



7.7 CLUTCH CONTROLS

The clutch controls have been accurately set. Should any adjustments be necessary contact your local service centre.

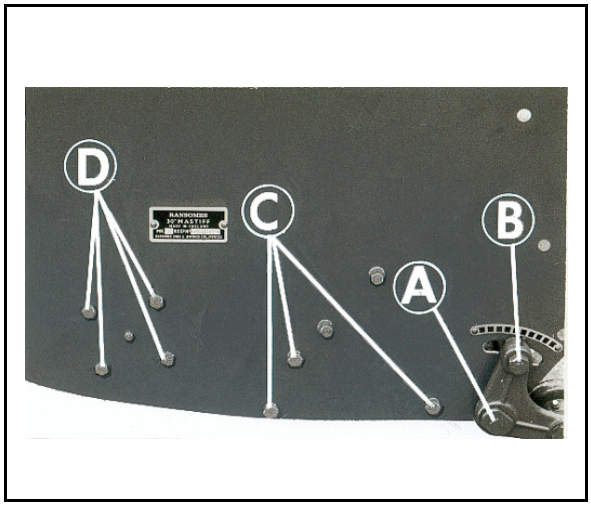
7.8 REMOVING THE CUTTING CYLINDER AND BOTTOM BLADE ASSEMBLY



1. Remove the chaincase and the cylinder drive chain.
2. Tilt the machine back until it rests on the handles. Ensure ithe machine is fully supported before continuing
3. Remove the front roll by extracting the pivot studs (A) and adjusting bolts (B) from both sides of the machine.
4. Remove the three cylinder housing screws (C) from both sides of the machine.

The complete cutting unit will then slide out. Re-assemble in reverse order.

7.9 REMOVING THE LANDROLL ASSEMBLY

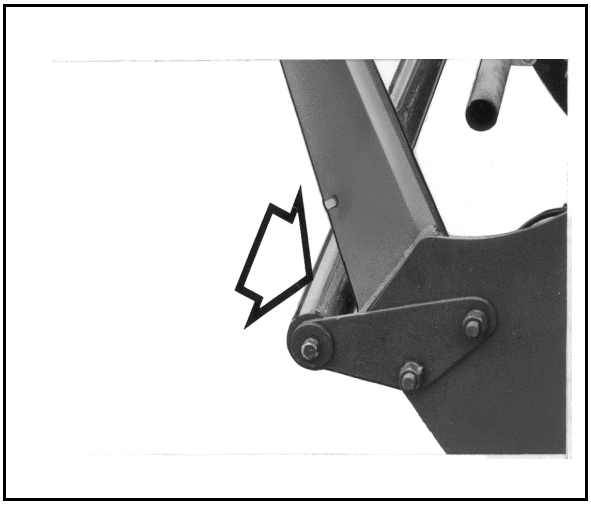


1. Places wedges under the side frames for support.
2. Remove the chain cover and landroll drive chain.
3. Disconnect brake cable by removing the split pin and pin which connects the lower end of the cable to the brake lever.
4. Remove the bolts securing the landroll bearing housings (D) at both sides of the machine.

The landroll assembly will then slide out.
Re-assemble in reverse order

7.10 BALANCE BAR (WALK BEHIND MACHINES ONLY)

When the machine is used without the grassbox fitted, the balance bar (Fig. 39), fitted at the base of the handle, must be removed and fitted to the grassbox arms.



7.11 SEAT (STEERING SEAT)

The seat is adjustable forwards or backwards.

(a) Release setscrews underneath mounting and slide seat to required position.

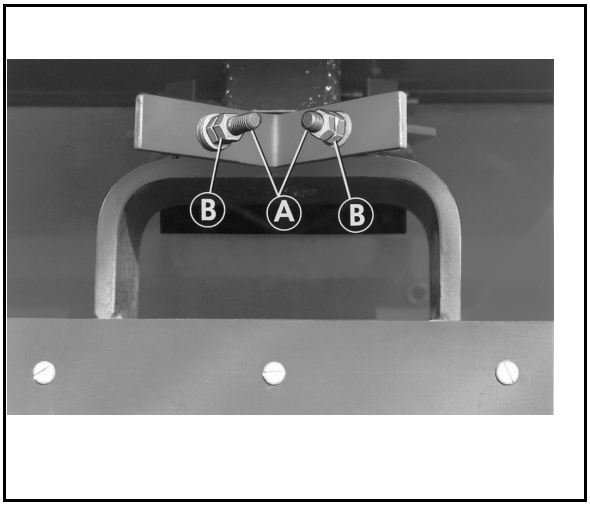
(b) Re tighten screws after adjusting.

7.12 STEERING CONTROL CABLE (STEERING SEAT)

The cable should be kept taut without overstraining and the adjusters (A) at the rear of the machine should be used for this purpose.

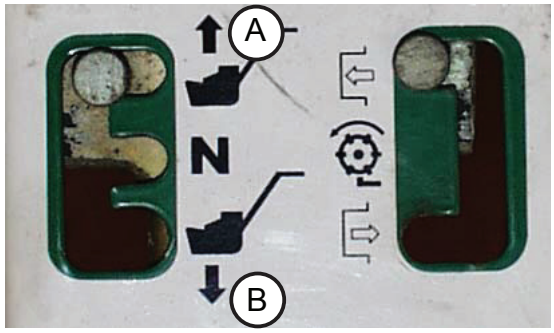
If adjustment is found necessary, tighten or slacken the locknuts (B) to suit.

Whilst every care must be taken to ensure the cable is tight, the relationship between the steering bar and the rear roll must be maintained, ie. When the steering bar is straight across the machine the rear roll should be in the straight ahead position.



7.13 TESTING GEAR SELECTION

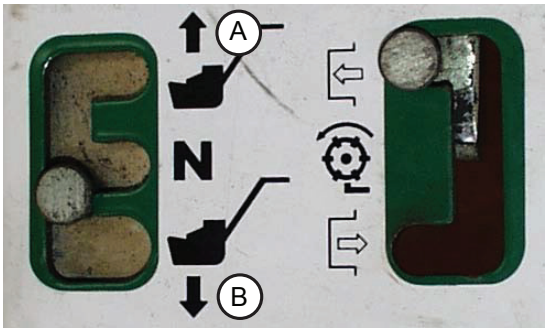
Perform the following tests to determine the correct function of the gear selection mechanism; do not use the machine until any failures have been rectified



1. Select forward drive (A) using the gear lever, check the gear lever is still free to move and does not catch in the gate.

2. Select reverse drive (B) using the gear lever. It should be possible to do this without using excess force and without the lever catching the gate.

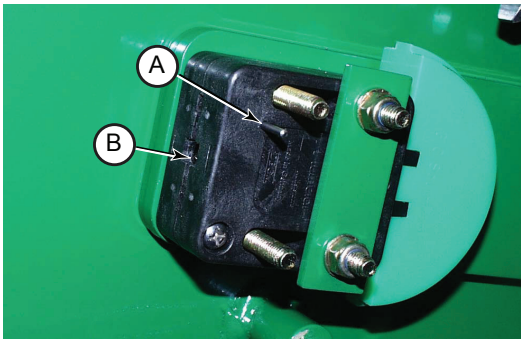
3. Gently tap the gear lever out of reverse until the lever just drops into neutral, check the landroll drive cog is free to rotate and the machine is in neutral.



NOTE

It is important not to pass the neutral position when performing this test as this can give false results

7.14 ADJUSTING GEAR SELECTOR



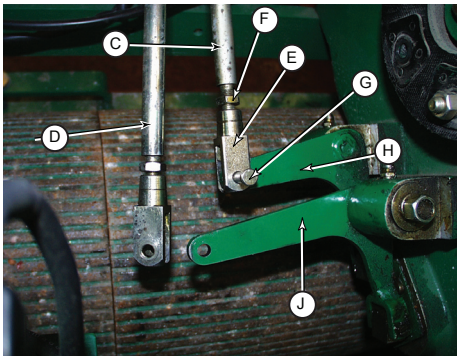
1. Remove the chain cover and tensioner retaining plate. Remove locking pin from storage position (B) insert the locking pin (A) as shown on both Tensioners.

2. Remove both the chains noting the orientationlock nuts of the connecting links before removal

3. Remove the gearbox cover

4. Slacken the locknut (F) on both gear levers (C & D).

5. Remove the locating pins (G) noting the location of any washers before removal.



6. Engage the cutting cylinder and forward drive by pushing the bell cranks (H & J) forward.

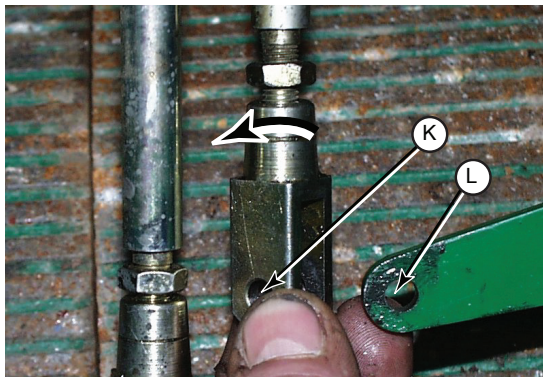
7. Move the gear lever to the forward position in the gate

8. Change the length of the gear lever by rotating the clevis joint until the holes in the clevis joint (K) and the hole in the bell crank (L) align.

9. Refit the locating pin and repeat the checks detailed in section 9.13.

10. If all checks are passed extend the gear lever by unscrewing the clevis joint by half a rotation and replacing the locating pin.

11. Repeat steps 8 & 9 until the gear lever sticks in the gate as shown in section 9.13. When this happens shorten the gear lever by turning the clevis joint half a rotation.



12. Refit the locating pin and its washers before tightening the locknut while holding the clevis joint vertical. Repeat the checks in section 9.13 to ensure that the settings are correct.

The cutting cylinder engagement is set by positioning the cutting cylinder gear lever into the cut position and repeating steps 8-12 detailed above. The cutting cylinder gear lever should smoothly drop back to the left and not stick in the gate when in neutral and cut.

- Refit the drive chains and release the chain Tensioners.
- Refit the chain cover and gearbox cover.

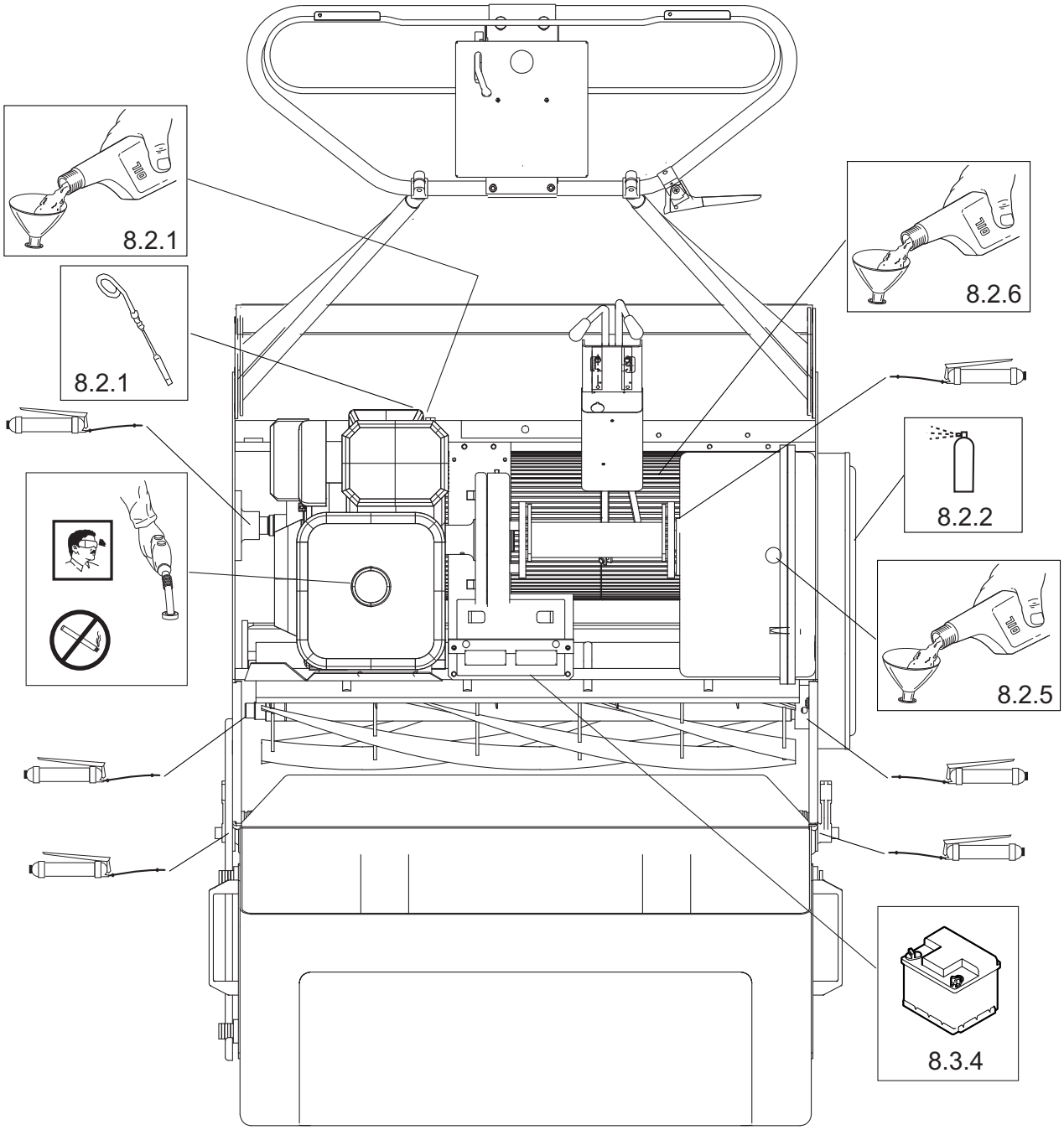
Repeat the test in section 7.13 & perform all functional testing as per section 6.2 before using the machine

NOTES

8.0 MAINTENANCE & LUBRICATION CHART

MACHINE SERVICE INTERVAL CHART		
Interval	**Item**	**Section**
First 20 hours	● **Change Engine Oil**	**8.2.1**
Daily 10 hours	● **Check Engine Oil Level.** ● **Clean Around Engine Exhaust, Springs & Linkages.** ● **Check Engine Cooling System for Debris** ● **Check Safety Interlock System.** ● **Lubricate Cylinder & Landroll Chains +.** ● **Lubricate Cylinder Bearings, Landroll Bearings, Front Rolls, Outer Landrolls, Bearing & Pivot Levers & All Linkages $.**	**8.2.1** **8.3.1** **8.3** **7.2** **8.22** **8.2.4**
Weekly Every 50 hours	● **Clean Engine Air Cleaner *.** ● **Check for Loose Components.** ● **Clean Fuel Filter.** ● **Check Oil Level in Gearbox.** ● **Check Oil Level in Landroll.**	**7.3** **8.2.1** **8.3.5** **8.2.5** **8.2.6**
Every 100 hours	● **Change Engine Oil** ● **Check Spark Plug.** ● **Clean Engine Cooling System.**	**8.3.2** **8.3.6** **8.3.1**
End of season Every 1000 hours	● **Check Battery Condition.** ● **Service Engine as per Engine Manufactures Instruction.** ● **Change Engine & Gearbox Oil.**	**8.3.4** **8.3.7** **8.2.1 & 8.2.5**
*** Check more often in dirty conditions + Lubricate with Chain Spray $ Lubricate with Engine Oil**		
IMPORTANT Refer to Engine Manufactures Manual for Additional Engine Maintenance Procedures		

FLUID REQUIREMENTS			
		Quantity	Type
A	Engine Oil	1.1 litres	10W 30 (SJ or later)
B	Fuel	6.1 litres	Minimum 85 Octane Lead Free
C	Gearbox	2.4 litres	SAE 50
D	Landroll	0.28 litres	SAE 50


8.2.1
8.2.1
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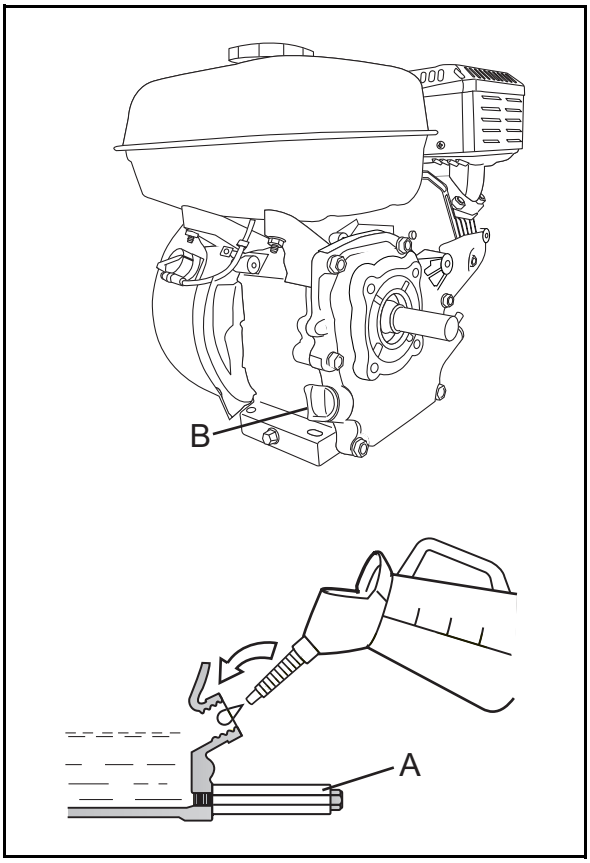
8.2.2
8.2.5
8.3.4

8.1 LUBRICATION

Before using the machine for the first time lubricate all points.

For recommended lubricants see section 8.1.
Should the number of working hours that the machine is in use during the indicated period exceed the number quoted in brackets, then use the recommended ‘working hour’ guide as the lubrication schedule.



8.1.1 ENGINE

Daily (Every 10 working hours)

Clean the sump filler cap and surrounding area.
Check level of oil in the sump. Remove dipstick plug (B) from either side of crankcase and check that the oil is up to the correct level.

Maximum oil level: To top of filler hole threads. Minimum oil level: To bottom of dipstick.
Top up with recommended oil if necessary.

DRAIN ENGINE OIL

(a). After warming up the engine remove the drain plug (A) and drain all oil from the sump. Clean the plug and replace.

(b). Refill the sump with the recommeded oil through the dipstick/filler plug hole (B) up to the correct level.

(c). Replace filler plug (B) after filling.

NOTE

Ensure machine is on level ground when checking oil level.

⚠ CAUTION

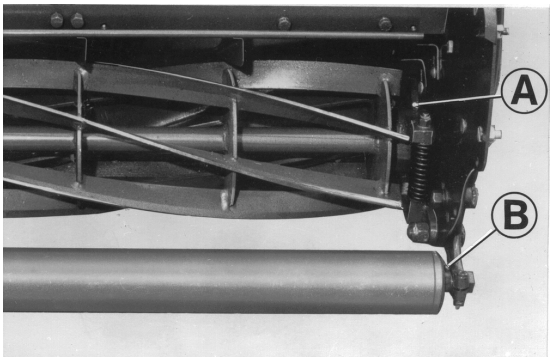
Contact With Engine Oil Can Damage Your Skin. Use Gloves When Working With Engine Oil. If You Come In Contact With Engine Oil, Wash It Off Immediately.

⚠ CAUTION

Dispose Of Used Engine Oil In Accordance With Local Regulations

8.1.2 MACHINE

LUBRICATE THE FOLLOWING WITH ENGINE OIL:



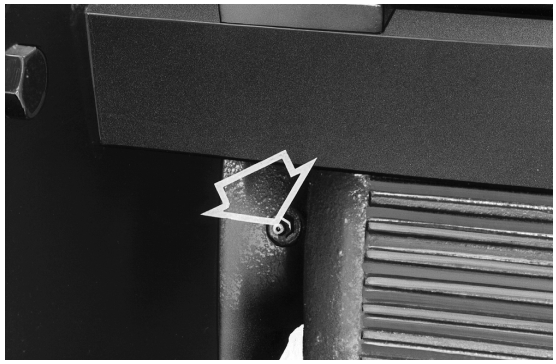
Cutting cylinder bearings (A).

Front rolls, or side rolls, where fitted (B).

Landroll bearing housings (C).
Outer landrolls on 91cm (36in) machine.

⚠ CAUTION

Contact With Engine Oil Can Damage Your Skin. Use Gloves When Working With Engine Oil. If You Come In Contact With Engine Oil, Wash It Off Immediately.

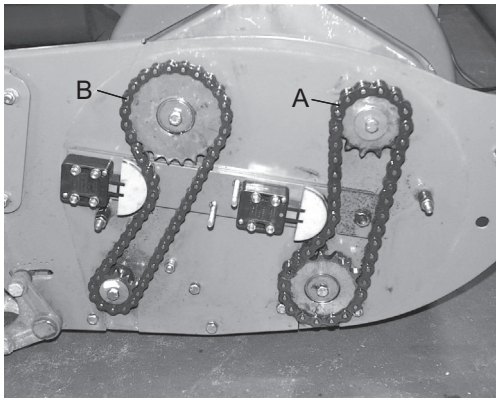


⚠ CAUTION

Dispose Of Used Engine Oil In Accordance With Local Regulations

8.1.3 Apply chain lubricant

Landroll drive chain (A)
Cutting cylinder drive chain (B)

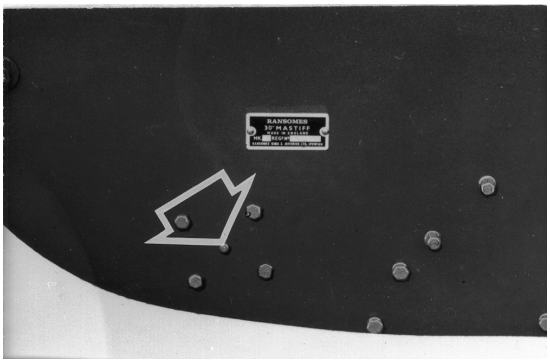


8.1.4 Apply Engine Oil

Bearings for pivot levers

NOTE

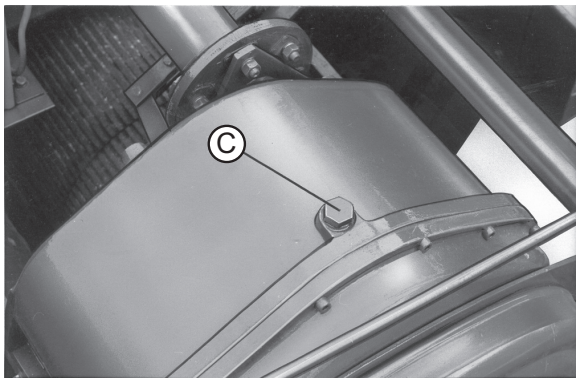
Safety guard has to be removed to gain access to the lubricating nipple.



In addition to the above, lubricate all linkages, pivots and lever fulcrums etc.

8.1.5 Gearbox

CHECK OIL LEVEL



(a) Release screws on both sides of cover and remove cover over gearbox and clutch shaft.

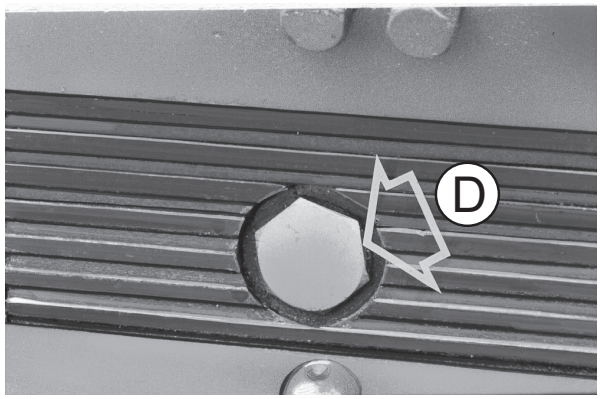
(b) Remove filler plug (C) and using the straight dipstick check level of oil.

(c) Top up, if necessary, to level indicated on the dipstick with recommended oil.

(d) Replace filler plug, refit cover and secure with screws.

8.1.6 Landroll

CHECK OIL LEVEL



(a) Position machine so that the filler plug (D) in the Landroll is visible between the rear engine bearer and the chassis cross stay. This position gives correct angle for the cranked dipstick.

(b) Clean around head of the plug and remove plug from Landroll.

(c) Using the cranked dipstick (supplied) check level of oil.

(d) Top up, if necessary, to the level indicated on the dipstick with recommended oil.

(e) Replace plug securely after checking level of oil.

⚠ CAUTION

Contact With Engine Oil Can Damage Your Skin. Use Gloves When Working With Engine Oil. If You Come In Contact With Engine Oil, Wash It Off Immediately.

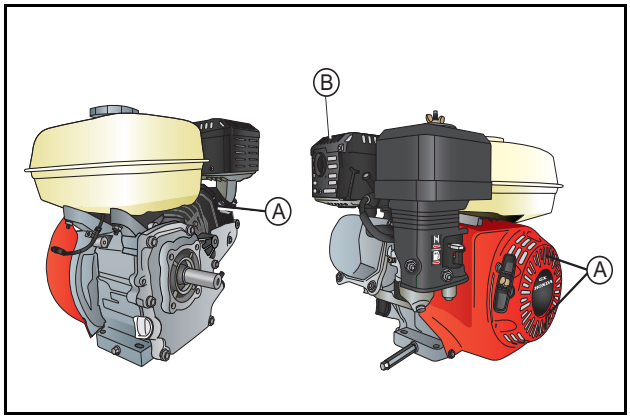
⚠ CAUTION

Dispose Of Used Engine Oil In Accordance With Local Regulations

8.2 MAINTENANCE

8.2.1 Cooling fins and Air intake

Check to ensure that the air blower and cooling fins (A) Linkages and exhaust (B) are kept free of all grass clippings and debris. This is essential to allow the free passage of air so that the cooling system functions correctly. A blocked cooling system will result in overheating and possible engine damage.



8.2.2 Air cleaner

Replace pre-cleaner (D) &/or cartridge (E) if very dirty or damaged.

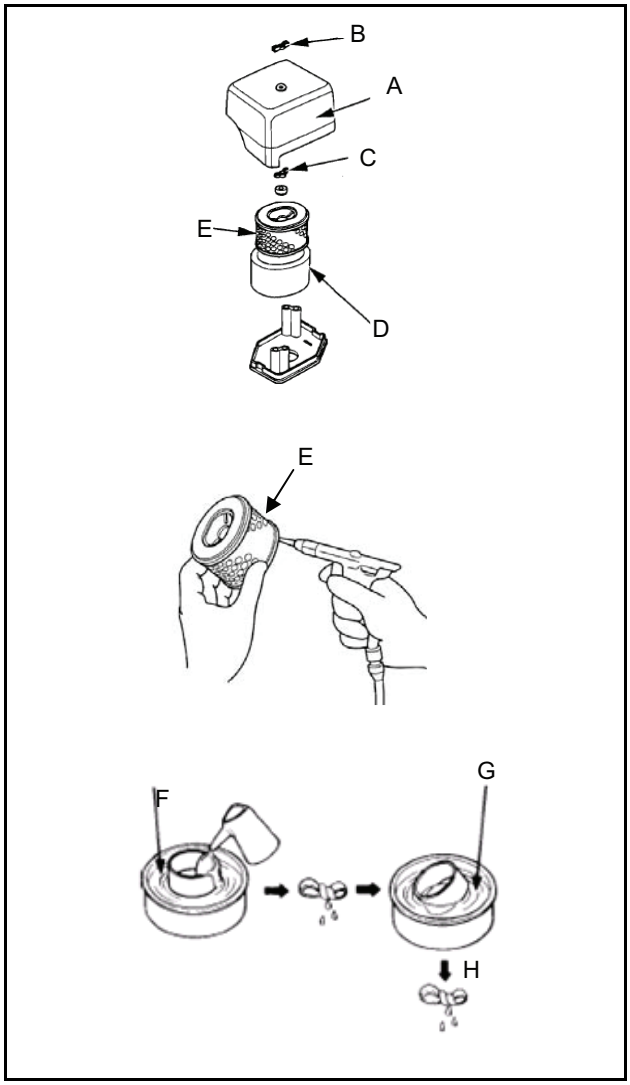
1 Loosen screws. Remove cover & air cleaner assembly from base.
2 Remove cartridge (B) & pre-cleaner (A).

To service pre-cleaner (D), wash in liquid detergent & water. Squeeze dry in a clean cloth. Saturate in engine oil. Squeeze in clean absorbent cloth to remove all excess oil.

To service cartidge (E), clean by tapping gently on a flat surface. Do not use petroleum solvents, e.g., kerosene, which will cause cartridge to deteriorate. Do not use pressurised air, which can damage cartridge. Do npt oil cartridge.

3 Install pre cleaner (D) in cover with mesh side towards cartridge (E). Install cartridge in cover base.
4 Seat cover & air cleaner assembly squarely onto base
5 Tighten cover screws securely.

IMPORTANT: Service more frequently if operating in dusty conditions.



8.3 BATTERY

Before you service the battery, make sure the ignition switch is in the OFF position and the key is removed.

⚠ CAUTION

When you service the battery, use correctly insulated tools. Wear applicable eye protection and clothing.

Discard used batteries as shown in your local regulations.

⚠ WARNING

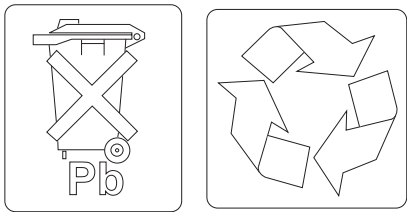
The battery contains corrosive acid. Prevent any contact with the battery acid.

Always Wash the Hands after you service a Battery.

⚠ WARNING

The battery posts, terminals and related parts contain lead and lead compounds. The State of California understands Lead to be a cause of cancer and reproductive harm.

Keep the battery terminals tight, To prevent corrosion, apply a layer of silicone dielectric grease to battery terminals and ends of cables. Keep the vent caps and battery terminal covers in position.



Before welding any part on the Mower, disconnect the battery cables and connectors from the controllers and visual display unit.

Battery Access

1. Remove the battery cover

Confirm the battery polarity before you connect or you disconnect the battery cables.

When you remove the battery, always disconnect the negative (BLACK) battery cable before the positive (RED) battery cable.

When you install the battery, always connect the positive (RED) battery cable before the negative (BLACK) battery cable.

8.4 CHARGING THE BATTERY

WARNING

The battery can release hydrogen gas that is explosive. Work in an area with good ventilation and shield from any type of ignition.

When the battery charger is turned on, to prevent injury, stay away from the battery. A battery that is damaged can cause an explosion.

Read the battery charger manual for specified instructions on the operation of the battery charger.

Remove the battery from the mower before you charge the battery. Check the level of the electrolyte is above the plates in all of the cells, unless the battery is a closed unit.

Make sure the battery charger is turned OFF, then connect the battery charger to the battery terminals as shown in the battery charger manual.

Always turn OFF the battery charger before you disconnect the battery charger from the battery terminals.

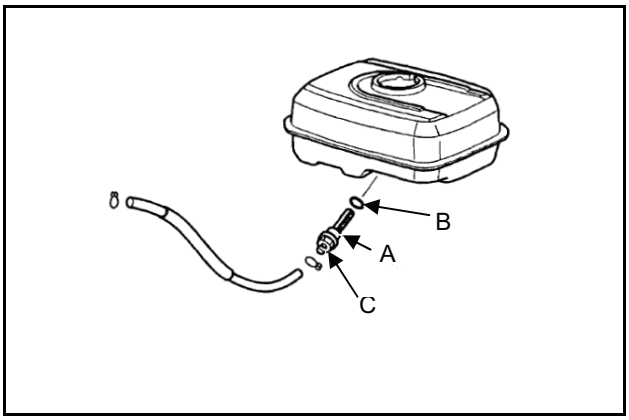
8.5 CLEAN FUEL FILTER

Drain the fuel tank

2 Turn the fuel valve lever to the ON position.

3 Loosen the carburetor drain bolt.

4 Drain the fuel from the carburetor and fuel tank into an approved container.



⚠ CAUTION

Contact With Fuel Can
Damage Your Skin. Use Gloves When
Working With Fuel. If You
Come In Contact With Fuel,
Wash It Off Immediately.

⚠ CAUTION

Dispose Of Used Fuel
In Accordance With Local Regulations

5 Tighten the carburetor drain bolt.

6 Disconnect fuel hose from fuel filter joint nut (C).

7 Remove filter (A)

8 Clean the filter with nonflammable solvent. Inspect the fuel filter to be sure it is undamaged.

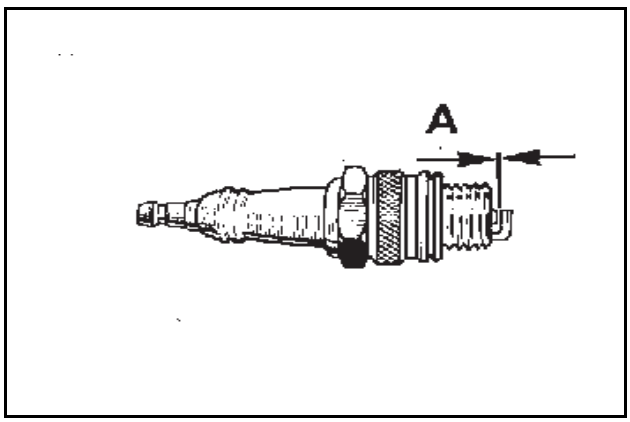
9 Check O Ring B is undamaged, replace in required.

10 Reassemble in reverse order.

8.6 SPARK PLUG

Remove spark plug and check condition. Good operating conditions are indicated if the plug has a light coating of gray or tan deposit. A white blistered coating could indicate overheating. A black (carbon) coating may indicate an over rich fuel mixture or incorrect carburettor adjustment.

Do not sand blast, wire brush or otherwise service a plug in poor condition. Best results are obtained with a new plug. The plug gap should be set at 0.7 - 0.8mm. Adjust the gap if necessary



8.7 ENGINE MAINTENANCE

REFER TO THE HONDA ENGINE OWNERS HANDBOOK FOR THE REQUIRED ENGINE MAINTENANCE DETAILS AND SCHEDULE.

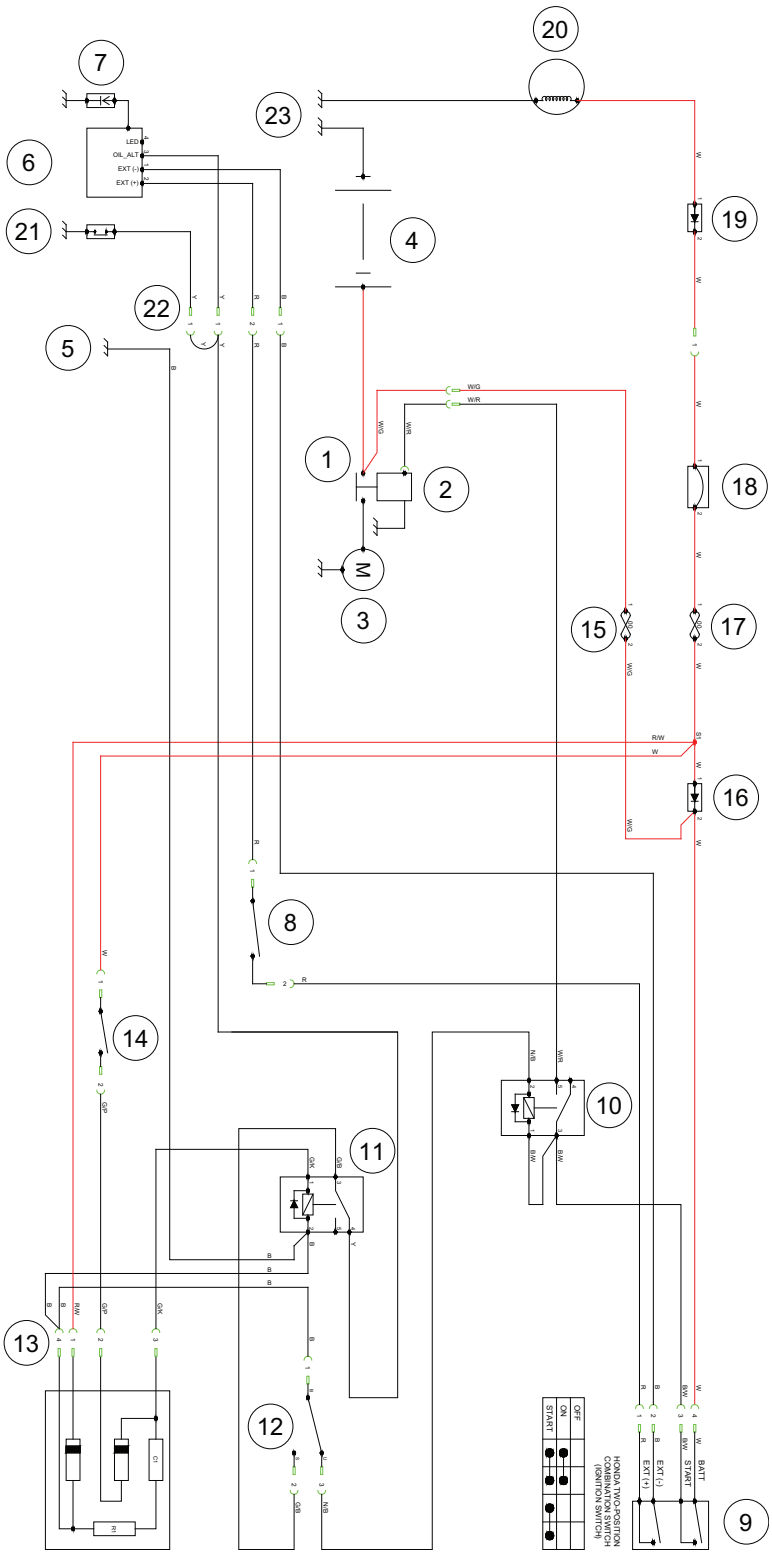
Engine maintenance must be carried out as instructed in the Honda engine handbook

9.1 PROBLEM SOLVING GENERAL

FAULT	REMEDY
variations in the height of cut grass across the width of cut	Front rolls are not square with bottom blade. Make necessary adjustment as per instruction in section 7.1
Grass is cut unevenly in wavy or hummocky fashion	Alignment of cutting cylinder has been upset, probably through running into an obstruction. Consult your local service centre.
Grass is torn off, instead of being cut evenly	Adjust cutting cylinder to bottom blade. See section 7.3. If grass is still not cut cleanly, the cylinder blades require sharpening. Consult your local service centre.
Grass is removed entirely and mower labours	The bottom blade is set to low. Raise height of cut. See section
Engine races but mower moves forwards sluggishly	The cylinder may have run into an obstruction. Stop the engine and clear any debris. If no obstruction is present the problem may be due to clutch slip. Consult your local service centre.
Cuttings not entering the grass box properly	Adjust the concave to obtain a better throw of grass cuttings. section 7.4.

NOTES

10.1 ELECTRICAL CIRCUIT



12.1 ELECTRICAL CIRCUIT

1 Starter Solenoid (Battery Positive)
2 Starter Solenoid (Actuator)
3 Starter Motor
4 Battery
5 Engine Ground
6 Ignition Coil
7 Spark Plug
8 Emergency Kill Switch
9 Ignition Switch
10 Start Control
11 Stop Relay
12 Gear Switch
13 Operator Presence Control Delay Unit
14 Operator Presence Control Switch
15 Fuse 2
16 Power Diode
17 Fuse 1
18 Circuit Protector
19 Rectifier
20 Alternator
21 Oil Level Switch
22 Engine to Main Harness Connector
23 Battery Ground

CABLE COLOUR CODE

R	Red
G	Green
O	Orange
S	Slate (Grey)
B	Black
W	White
K	Pink
P	Purple (Violet)
Y	Yellow
U	Blue
N	Brown
LG	Light Green

11.1 TORQUES

FINE PITCH METRIC THREADS					
Dia (mm)	Grade 4.6	Grade 4.8	Grade 8.8	Grade 10.9	Grade 12.9
	(Nm)	(Nm)	(Nm)	(Nm)	(Nm)
6	0	0	0	0	0
8	12	16	32	45	54
10	24	31	63	88	106
12	42	57	113	159	191
14	67	90	179	252	302
16	103	137	274	385	462
20	209	279	557	783	940
22	281	375	750	1055	1266
24	354	472	944	1327	1593
27	514	686	1371	1928	2314
30	715	954	1908	2683	3219
33	964	1286	2572	3616	4340
36	1196	1594	3189	4484	5381

COARSE PITCH METRIC THREADS					
Dia (mm)	Grade 4.6	Grade 4.8	Grade 8.8	Grade 10.9	Grade 12.9
	(Nm)	(Nm)	(Nm)	(Nm)	(Nm)
6	5	6	12	17	21
8	11	15	30	42	51
10	22	30	59	84	100
12	39	52	104	146	175
14	62	82	165	232	278
16	96	129	257	362	434
20	188	251	502	706	847
22	256	341	683	960	1152
24	325	434	868	1220	1464
27	476	635	1269	1785	2142
30	646	862	1723	2424	2908
33	822	1097	2193	3084	3701
36	1129	1506	3012	4235	5082

UNF THREADS					
Dia (in)	Grade A	Grade S	Grade T	Grade V	Grade X
	(lbf. ft)	(lbf. ft)	(lbf. ft)	(lbf. ft)	(lbf. ft)
1/4	3.8	10.4	11.3	14.3	17.3
5/16	7.7	20.8	22.5	28.5	34.5
3/8	13.9	37.7	40.7	51.6	62.5
7/16	21.9	59.5	64.2	81.4	98.6
1/2	33.7	91.5	98.7	125	152
9/16	48.2	131	141	179	217
5/8	67.4	183	197	250	303
3/4	118	319	344	437	529
7/8	188	509	550	697	645
1	279	757	817	1036	1255
1 1/8	405	1099	1186	1504	1823
1 1/4	563	1529	1650	2093	2535
1 3/8	759	2061	2224	2821	3418

UNC THREADS					
Dia (in)	Grade A	Grade S	Grade T	Grade V	Grade X
	(lbf. ft)	(lbf. ft)	(lbf. ft)	(lbf. ft)	(lbf. ft)
1/4	3.4	9.2	9.9	12.6	15.2
5/16	7	18.9	20.4	25.8	31.3
3/8	12.3	33.5	36.1	45.8	55.5
7/16	19.7	53.5	57.8	73.2	88.7
1/2	30.1	81.6	88	112	135
9/16	43.3	117	127	161	195
5/8	59.8	162	175	222	269
3/4	106	288	310	394	477
7/8	171	464	500	635	769
1	256	695	749	950	1152
1 1/8	363	984	1062	1347	1632
1 1/4	511	1387	1497	1899	2300
1 3/8	670	1820	1963	2490	3017

12.1 ENGINE SPECIFICATION

Manufacture	Honda	
Model ID	Honda GX390 UT2 LXE4	
Type	Air Cooled 4 Stroke Overhead valve Single Cylinder 389 cm³ Petrol with 2:1 Reduction Unit	
Net Power	8.7kW @ 3600 rpm	11.7 hp @ 3600rpm
Maximum Engine Speed	2550 ± 20 rpm	
Maximum Output Shaft Speed	1275 ± 10 rpm	
Fuel System	Normally Aspirated	
Fuel Tank Capacity	6.1 litres	6.4 US quarts
Fuel Grade	87 Octane lead free	

12.2 DIMENSIONS & WEIGHTS

Width of Cut:	91 cm	36 in
Cutting Ratio	65 - 100 cuts / metre	60 - 90 cuts / yard
Overall Height	127 cm	50 in
Overall Length	216 cm	85 in
Overall Width	112 cm	44 in
Gross Weight including Grass box, less fuel	344.5 kg	759.5 lb
Fuel 6.1 litres (6.4 US quarts)	4.50 kg	12.05 lb

12.3 MACHINE SPECIFICATION

Chassis:	Pressed steel welded fabrication.
Transmission:	Gearbox with half speed reverse to heavy duty roller chains to Land roll and cutting cylinder.
Clutches:	Main centrifugal clutch. Separate Land roll clutch. and Cylinder clutch.
Front roll:	One piece steel roll runningon ball bearings.
Land roll:	3 piece cast iron with machine cut gear differentialrunning in oil bath, and expanding shoe brake.
Cutting cylinder:	All welded 6 or 9 knife, cylinder running on ball bearings.
Cutting ratio:	65 or 100 cuts / metre
Height of cut:	13 - 35mm
Handles:	Tubular steel adjustable at top.
Grass box:	Large capacity fiber glass tip-over
Cutting width:91cm	
Drive Train	
Traction	Heavy Roller Chain and Cylinder Clutch
Cutting Unit Drive	Chain with Separate Cylinder Clutch
Land roll	Chain with Separate Cylinder Clutch
Brakes	
Service	Cable Operated with emergency stop switch
Parking	Land roll Parking brake - Cable operated

12.4 VIBRATION LEVEL

The machine was tested for hand/arm vibration levels. The operator was in the normal position to drive the vehicle, with two hands on the steering mechanism. The engine was in operation and the cutting device was in rotation, while the machine was not moving.

The Machinery Safety Directive 2006/42/EC
By compliance to:
The Lawnmower Standard BS EN ISO 5395
Referenced to Hand/Arm: BS EN ISO20643:2008

Information Supplied for Physical Agents Directive 2002/44/EC
By reference to:
Hand/Arm Standards: BS EN ISO 5349-1 (2001)
BS EN ISO 5349-2 (2002)

Ransomes Mastiff Hand / Arm Acceleration Level	**Series FN1 & FP1**
	Max. LH or RH Accelerations m/s²
	Mean Value of X, Y, Z Aeq
	4.64 ± 0.40

The machine was tested for Whole Body vibration levels. The operator was in the normal position to drive the vehicle, with two hands on the steering mechanism. The cutting device was in rotation with the machine driven in a straight line at 6 Km/hr on a level and cut lawn.

The Machinery Safety Directive 2006/42/EC
By compliance to:
Whole Body EN1032:2003

Information Supplied for Physical Agents Directive 2002/44/EC
By reference to:
Whole Body Standards BS EN ISO 2631-1 (1997)

Ransomes Mastiff Whole Body Acceleration Level	**Series FN1 & FP1**
	Max. Accelerations m/s²
	Mean Value of X, Y, Z Aeq
	2.57 ± 1.57

12.5 NOISE LEVEL

When the machine was tested for sound pressure (Operator Ear).

The Machinery Safety Directive 2006/42/EC
And
Exposure Of Workers To The Risks Arising From Physical Agents (Noise) Directive 2003/10/EC

By compliance to:
The Lawnmower Standard BS EN ISO 5395:2013
And
Sound Pressure Standard EN ISO 3746: 2010

Measured Sound Pressure 87 dB(A) ± 0.86

When the machine was tested for sound power (Noise in the Environment).

The Machinery Safety Directive 2006/42/EC
And
Noise Emission In The Environment By Equipment For Use Outdoors
Directive 2000/14/EC

By compliance to:
Sound Power Standard EN ISO 3744:2010

Measured Sound Power 97 dB(A) ± 0.86

12.6 SLOPES

DO NOT USE ON SLOPES GREATER THAN 16°. The 16° slope was calculated using static stability measurements according to the requirements of BS EN ISO 5395

12.7 CUTTING UNIT SPECIFICATION

Construction	All welded 5 knife cylinder
Reel Length	91cm (36 inches)
Number of Knives	6 or 9
Reel Speed	1043 rpm
Front Roll	One piece steel
Fixed Head Height of Cut (Standard Blade)	13- 35mm (0.5 - 1.38 inches)
Rear Roll	3 piece cast iron with brake
Height of Cut Adjustment	Locknut and pivot bracket
Cylinder to Bottom Blade Adjustment	Threaded Adjuster
Transmission	Centrifugal clutch and heavy roller chain

NOTE
These cutting units are made to cut grass of maximum height 82 mm down to the available height of cut range.

12.8 CUTTING PERFORMANCE

91m (36inch) width of cut:
0.41 hectares/hr. At 4.8 kph.
1 acres / at 3mph

(10% allowance is included for normal overlaps and turning at the end of each cut.

12.9 RECOMMENDED LUBRICANTS

Engine oil:Should be to MIL-L-2104B/ or to A.P.I. Classification SC grades and as givenin the table below:

TEMPERATURE	VISCOSITY
Above 25°C (77°F)	**SAE30 or SAE10W-30 or SAE10W-40**
0°C to 25°C (32°F to 77°F)	**SAE20 or SAE10W-30 or SAE10W-40**
Below 0°C (32°F)	**SAE10W or SAE10W-30 or SAE10W-40**

Gearbox oil:SAE 15W-40
Land roll oil:SAE 15W-40

Grease: Shell Darina R2 or equivalent.

12.10 ACCESSORIES

10.1 TRAILING SEAT

LBMA029 - TRAILING SEAT ON IRON ROLLS

If required, a trailing seat, with adjustable draw-bar length, may be attached to the machine by means of a single pin coupling.
An EU Certificate of Incorporation is included in this manual

10.2 STEERING SEAT

LMAC253 - Kit - Mastiff Steering Seat
Serial No's FP & FN

A steering seat is attached to the machine by removing the frame and handle bars and replacing in the same location with the frame supplied.
An EC Certificate of Incorporation is included in this manual.

10.3 GROOVED ROLL

LMSE167-Grooved Front Roll Assembly
Refer to parts manual

10.4 BRUSH KIT

LMAB 997 - Brush Kit, Mastiff 91
Refer to parts manual

10.5 TIP-OVER GRASSBOX

LMAB885 - Standard Grass-box.
LMAA768D - Self Emptying Grass-box.

If required, a self-emptying grass box can be fitted to replace the Standard Grass-box.

10.6 SIDE ROLLS

DECLARATION OF CONFORMITY ▪ ДЕКЛАРАЦИЯ ЗА СЪОТВЕТСТВИЕ ▪ PROHLÁŠENÍ O SHODĚ ▪ OVERENSSTEMMELSESERKLÆRING ▪ CONFORMITEITSVERKLARING ▪ VASTAVUSDEKLARATSIOON ▪ VAATIMUSTENMUKAISUUSVAKUUTUS ▪ DECLARATION DE CONFORMITE ▪ KONFORMITÄTSERKLÄRUNG ▪ ΔΗΛΩΣΗ ΣΥΜΜΟΡΦΩΣΗΣ ▪ MEGFELELŐSÉGI NYILATKOZAT ▪ DICHIARAZIONE DI CONFORMITÀ ▪ ATBILSTĪBAS DEKLARĀCIJA ▪ ATITIKTIES DEKLARACIJA ▪ DIKJARAZZJONI TAL-KONFORMITÀ ▪ DEKLARACJA ZGODNOŚCI ▪ DECLARAÇÃO DE CONFORMIDADE ▪ DECLARAŢIE DE CONFORMITATE ▪ VYHLÁSENIE O ZHODE ▪ IZJAVA O SKLADNOSTI ▪ DECLARACIÓN DE CONFORMIDAD ▪ DEKLARATION OM ÖVERENSSTÄMMELSE ▪ SAMRÆMISYFIRLÝSING ▪ KONFORMITETSERKLÆRING ▪ 符合性声明 ▪ SAMRÆMISYFIRLÝSING ▪ 適合宣言 ▪ 적합성 선언서 ▪ UYGUNLUK BEYANI ▪ ДЕКЛАРАЦІЯ ПРО ВІДПОВІДНІСТЬ

Business name and full address of the manufacturer • Търговско име и пълен адрес на производителя • Obchodní jméno a plná adresa výrobce • Producentens firmanavn og fulde adresse • Bedrijfsnaam en volledig adres van de fabrikant • Tootja ärinimi ja täielik aadress • Valmistajan toiminimi ja täydellinen osoite • Nom commercial et adresse complète du fabricant • Firmenname und vollständige Adresse des Herstellers • Επωνυμία και ταχυδρομική διεύθυνση κατασκευαστή • A gyártó üzleti neve és teljes címe • Ragione sociale e indirizzo completo del fabbricante • Uzņēmuma nosaukums un pilna ražotāja adrese • Verslo pavadinimas ir pilnas gamintojo adresas • Isem kummerċjali u indirizz sħiħ tal-fabbrikant • Nazwa firmy i pełny adres producenta • Nome da empresa e endereço completo do fabricante • Denumirea comercială şi adresa completă a producătorului • Obchodný názov a úplná adresa výrobcu • Naziv podjetja in polni naslov proizvajalca • Nombre de la empresa y dirección completa del fabricante • Tillverkarens företagsnamn och kompletta adress • Fyrirtækisheiti og fullt heimilisfang framleiðanda • Firmanavn og full adresse for produsenten • 制造商的商业名称和完整地址 • Nafn fyrirtækis og fullt heimilisfang framleiðanda • 商号およびメーカーの正式住所 • 제조자의 성호명 및 주소 • İmalatçının ticari ünvanı ve açık adresi • Фірмове найменування і повна адреса виробника	Ransomes Jacobsen Limited West Road, Ransomes Europark, Ipswich, England, IP3 9TT
Product Code • Код на продукта • Kód výrobku • Produktkode • Productcode • Toote kood • Tuotekoodi • Code produit • Produktcode • Κωδικός προϊόντος • Termékkód • Codice prodotto • Produkta kods • Produkto kodas • Kodiċi tal-Prodott • Kod produktu • Código do Produto • Cod produs • Kód výrobku • Oznaka proizvoda • Código de producto • Produktkod • Vörunúmer • Produktkode • 产品代码 • Framleiðslunúmer • 製品コード • 제품 코드 • Ürün Kodu • Код виробу	LDEA330 LDEA340
Machine Name • Наименование на машината • Název stroje • Maskinnavn • Machinenaam • Masina nimi • Laitteen nimi • Nom de la machine • Maschinenbezeichnung • Ονομασία μηχανήματος • Gépnév • Denominazione della macchina • Iekārtas nosaukums • Mašinos pavadinimas • Isem tal-Magna • Nazwa urządzenia • Nome da Máquina • Numele echipamentului • Názov stroja • Naziv stroja • Nombre de la máquina • Maskinens namn • Heiti tækis • Maskinnavn • 机器名称 • Nafn vélar • 機械名 • 기기 명칭 • Makine Adı • Назва машини	Ransomes mastiff 91
Designation • Предназначение • Označení • Betegnelse • Benaming • Nimetus • Tyyppimerkintä • Pažymėjimas • Bezeichnung • Χαρακτηρισμός • Megnevezés • Funzione • Apzīmējums • Lithuanian • Denominazzjoni • Oznaczenie • Designação • Specificaţie • Označenie • Namen stroja • Descripción • Beteckning • Merking • Konstruksjon •名称 • Útnefning • 用途 • 지정 • Tanımı • Позначення	Walk Behind Reel Mower
Serial Number • Сериен номер • Sériové číslo • Serienummer • Serienummer • Seerianumber • Valmistusnumero • Numéro de série • Seriennummer • Σειριακός αριθμός • Sorozatszám • Numero di serie • Sērijas numurs • Serijos numeris • Numru Serjali • Numer seryjny • Número de Série • Număr de serie • Sériové číslo • Serijska številka • Número de serie • Serienummer • Raðnúmer • Serienummer •序列号 • Raðnúmer • シリアル番号 • 일련 번호 • Seri Numarası • Серійний номер	FN100301 - FN999999 FP100301 - FP999999
Engine • Двигател • Motor • Motor • Motor • Mootor • Moottori • Moteur • Motor • Μηχανή • Modulnév • Motore • Dzinējs • Variklis • Saħħa Netta Installata • Silnik • Motor • Motor • Motor • Motor • Motor • Vél • Motor • 发动机 • Afl vél • エンジン • 엔진 • Motor • Двигун	Honda GX390 UT2 LXE4
Net Installed Power • Нетна инсталирана мощност • Čistý instalovaný výkon • Installeret nettoeffekt • Netto geïnstalleerd vermogen • Installeeritud netovõimsus • Asennettu nettoteho • Puissance nominale nette • Installierte Nettoleistung • Καθαρή εγκατεστημένη ισχύς • Nettó beépített teljesítmény • Potenza netta installata • Paredzētā tīkla jauda • Grynoji galia • Wisa' tal-Qtugħ • Moc zainstalowana netto • Potência instalada • Puterea instalată netă • Čistý inštalovaný výkon • Neto vgrajena moč • Potencia instalada neta • Nettoeffekt • Nettóafl vélar • Netto installert kraft • 装机净功率 • Netuppsetningarorka • 搭載する正味出力 • 정미 출력 • Net Kurulu Güç • Корисна встановлена потужність	8.7 kW @ 3000 RPM
Cutting Width • Широчина на рязане • Šířka řezu • Skærebredde • Maaibreedte • Lõikelaius • Leikkuuleveys • Largeur de coupe • Schnittbreite • Μήκος μισινέζας • Vágási szélesség • Larghezza di taglio • Griešanas platums • Pjovimo plotis • Tikkonforma mad-Direttivi • Szerokość cięcia • Largura de Corte • Lățimea de tăiere • Šírka záberu • Širina reza • Anchura de corte • Klippbredd • Skurðbreidd • Klippebredde • 剪草宽度 • Breidd sláttar • 刈り取り幅 • 절단 폭 • Kesme Genişliği • Ширина різання	91 cm
Conforms to Directives • В съответствие с директивите • Splňuje podmínky směrnic • Er i overensstemmelse med direktiver • Voldoet aan de richtlijnen • Vastab direktiividele • Direktiivien mukainen • Conforme aux directives • Entspricht Richtlinien • Ακολουθήστε πιστά τις Οδηγίες • Megfelel az irányelveknek • Conforme alle Direttive • Atbilst direktīvām • Atitinka direktyvų reikalavimus • Valutazzjoni tal-Konformità • Dyrektywy związane • Cumpre as Directivas • Respectă Directivele • Je v súlade so smernicami • Skladnost z direktivami • Cumple con las Directivas • Uppfyller direktiv • Samræmist tilskipunum • I samsvar med direktiv • 符合指令 • Í samræmi við reglugerðir • 適合指令 • 규정 준수 • Şu Yönergelere Uymaktadır • Відповідає директиві	2006/42/EC (Machinery Directive) 2004/108/EC (EMC) 2000/14/EC (Noise in the Environment) 2003/10/EC (Noise Physical Agents) 2002/44/EC (Vibration Physical Agents)
Conformity Assessment • Оценка за съответствие • Hodnocení plnění podmínek • Overensstemmelsesvurdering • Conformiteitsbeoordeling • Vastavushindamine • Vaatimustenmukaisuuden arviointi • Evaluation de conformité • Konformitätsbeurteilung • Διαπίστωση Συμμόρφωσης • Megfelelőség-értékelés • Valutazione della conformità • Atbilstības novērtējums • Atitikties įvertinimas • Livell tal-Qawwa tal-Ħoss Imkejjel • Ocena zgodności • Avaliação de Conformidade • Evaluarea conformității • Vyhodnotenie zhodnosti • Ocena skladnosti • Evaluación de conformidad • Bedömning av överensstämmelse • Samræmismat • Konformitetsvurdering • 符合性评估 • Samræmismat • 適合性評価 • 적합성 평가 • Uygunluk Değerlendirmesi • Оцінка відповідності	2006/42/EC Annex VIII
Measured Sound Power Level • Измерено ниво на звукова мощност • Naměřený akustický výkon • Målte lydstyrkeniveau • Gemeten geluidsniveau • Mõõdetud helivõimsuse tase • Mitattu äänitehotaso • Niveau de puissance sonore mesuré • Gemessener Schalldruckpegel • Σταθμισμένο επίπεδο ηχητικής ισχύος • Mért hangteljesítményszint • Livello di potenza sonora misurato • Izmērītais skaņas jaudas līmenis • Iżmautas garso stiprumo lygis • Livell tal-Qawwa tal-Ħoss Iggarantit • Moc akustyczna mierzona • Nível sonoro medido • Nivelul măsurat al puterii acustice • Nameraná hladina akustického výkonu • Izmerjena raven zvočne moči • Nivel de potencia sonora medido • Uppmätt ljudeffektsnivå • Mælt hljóðaflsstig • Målt lydeffektnivå • 測得声功率级 • Mældur hljóðstyrkur • 音出力レベル測定値 • 측정된 음향 파워 레벨 • Ölçülen Ses Gücü Düzeyi • Виміряний рівень звукової потужності	97 dB(A) ± 0.86
Guaranteed Sound Power Level • Гарантирано ниво на звукова мощност • Garantovaný akustický výkon • Garanteret lydstyrkeniveau • Gegarandeerd geluidsniveau • Garanteeritud helivõimsuse tase • Taattu äänitehotaso • Niveau de puissance sonore garanti • Garantierter Schalldruckpegel • Εγγυημένο επίπεδο ηχητικής ισχύος • Szavatolt hangteljesítményszint • Livello di potenza sonora garantito • Garantētais skaņas jaudas līmenis • Garantuotas garso stiprumo lygis • Livell tal-Qawwa tal-Ħoss Iggarantit • Moc akustyczna gwarantowana • Nível sonoro farantido • Nivelul garantat al puterii acustice • Garantovaná hladina akustického výkonu • Zajamčena raven zvočne moči • Nivel de potencia sonora garantizado • Garanterad ljudeffektsnivå • Hljóðaflsstig sem ábyrgð er tekin á • Garanter lydeffektnivå • 保证声功率级 • Tryggður hljóðstyrkur • 音出力保証レベル • 보장된 음향 파워 레벨 • Garantili Ses Gücü Düzeyi • Гарантований рівень звукової потужності	100 dB(A)
Conformity Assessment Procedure (Noise) • Оценка за съответствие на процедурата (Шум) • Postup hodnocení plnění podmínek (hluk) • Procedure for overensstemmelsesvurdering (Støj) • Procedure van de conformiteitsbeoordeling (geluid) • Vastavushindamismenetlus (müra) • Vaatimustenmukaisuuden arviointimenettely (Melu) • Procédure d'évaluation de conformité (bruit) • Konformitätsbeurteilungsverfahren (Geräusch) • Διαδικασία Αξιολόγησης Συμμόρφωσης (Θόρυβος) • Megfelelőség-értékelési eljárás (Zaj) • Procedura di valutazione della conformità (rumore) • Atbilstības novērtējuma procedūra (troksnis) • Atitikties įvertinimo procedūra (garsas) • Proċedura tal-Valutazzjoni tal-Konformità (Ħoss) • Procedura oceny zgodności (poziom hałasu) • Processo de avaliação de conformidade (nível sonoro) Procedura de evaluare a conformității (zgomot) • Postup vyhodnocovania zhodnosti (hluk) • Postopek za ugotavljanje skladnosti (hrup) • Procedimiento de evaluación de conformidad (ruido) • Procedur för bedömning av överensstämmelse (buller) • Samræmismatsaðferð (hávaði) • Prosedyre for konformitetsvurdering (støy) • 符合性评估程序（噪声） • Aðgerð fyrir samræmismat (Hávaði) • 適合性評価の手順（騒音） • 적합성 평가 절차(소음) • Uygunluk Değerlendirme Prosedürü (Gürültü) • Регламент оцінки відповідності (шум)	2000/14/EC Annex VI Part 1
UK Notified Body for 2000/14/EC • Нотифициран орган в Обединеното кралство за 2000/14/ЕО • Úřad certifikovaný podle směrnice č. 2000/14/EC • Det britiske bemyndigede organ for 2001/14/EF • Engels adviesorgaan voor 2000/14/EG • Ühendkuningriigi teavitatud asutus direktiivi 2000/14/EÜ mõistes • Direktiivin 2000/14/EY mukainen ilmoitettu tarkastuslaitos Isossa-Britanniassa • Organisme notifié concernant la directive 2000/14/CE • Britische benannte Stelle für 2000/14/EG • Κοινοποιημένος Οργανισμός Ηνωμένου Βασιλείου για 2000/14/ΕΚ • 2000/14/EK – egyesült királyságbeli bejelentett szervezet • Organismo Notificato in GB per 2000/14/CE • 2000/14/EK AK reģistrētā organizācija • JK notifikuotosios įstaigos 2000/14/EC • Korp Notifikat tar-Renju Unit għal 2000/14/KE • Dopuszczona jednostka badawcza w Wielkiej Brytanii wg 2000/14/WE • Entidade notificada no Reino Unido para 2000/14/CE • Organism notificat în Marea Britanie pentru 2000/14/CE • Notifikovaný orgán Spojeného kráľovstva pre smernicu 2000/14/ES • Britanski priglašeni organ za 2000/14/ES • Cuerpo notificado en el Reino Unido para 2000/14/CE • Anmält organ för 2000/14/EG i Storbritannien • Tilkynntur aðili í Bretlandi fyrir 2000/14/EC • Britisk teknisk for 2000/14/EF • 英国 2000/14/EC 认证机构 • Bretland Upplýsingar fyrir 2000/14/EB • UK（英国）公認機関、2000/14/EC • 2000/14/EC에 대한 영국 인증 기관 • 2000/14/EC için BK Onaylı Kuruluş • Британський уповноважений орган для 2000/14/EC	Number: 1088 Sound Research Laboratories Limited Holbrook House, Little Waldingfield Sudbury, Suffolk CO10 0TH

Operator Ear Noise Level • Оператор на нивото на доловим от ухото шум • Hladina hluku v oblasti uší operátora • Støjniveau i førers ørehøjde • Geluidsniveau oor bestuurder • Müratase operaatori kõrvas • Melutaso käyttäjän korvan kohdalla • Niveau de bruit à hauteur des oreilles de l'opérateur • Schallpegel am Bedienerohr • Επίπεδο θορύβου σε λειτουργία • A kezelő fülénél mért zajszint • Livello di potenza sonora all'orecchio dell'operatore • Trokšņa līmenis pie operatora auss • Dirbančiojo su mašina patiriamo triukšmo lygis • Livell tal-Ħoss fil-Widna tal-Operatur • Dopuszczalny poziom hałasu dla operatora • Nível sonoro nos ouvidos do operador • Nivelul zgomotului la urechea operatorului • Hladina hluku pôsobiaca na sluch operátora • Raven hrupa pri ušesu upravljavca • Nivel sonoro en el oído del operador • Ljudnivå vid förarens öra • Hävaðastig fyrir stjórnanda • Støynivå ved operatørens øre • 操作员耳旁噪声级 • Hljóðstyrkur fyrir stjórnanda • オペレータが感じる騒音レベル • 사용자 청각 소음 레벨 • Operatör Kulak Gürültü Düzeyi • Рівень шуму, що впливає на оператора	87 dB(A) ± 0.86 (2006/42/EC)
Harmonised standards used • Използвани хармонизирани стандарти • Použité harmonizované normy • Brugte harmoniserede standarder • Gebruikte geharmoniseerde standaards • Kasutatud ühtlustatud standardid • Käytetyt yhdenmukaistetut standardit • Normes harmonisées utilisées • Angewandte harmonisierte Normen • Εναρμονισμένα πρότυπα που χρησιμοποιήθηκαν • Harmonizált szabványok • Standard armonizzati applicati • Izmantotie saskaņotie standarti • Panaudoti suderinti standartai • Standards armonizzati użati • Normy spójne powiązane • Normas harmonizadas usadas • Standardele armonizate utilizate • Použité harmonizované normy • Uporabljeni usklajeni standardi • Estándares armonizados utilizados • Harmoniserade standarder som används • 所采用的协调标准 • Samstilltir staðlar notaðir • 整合規格 • 적용되는 조화 표준 • Kullanılan uyumlu standartlar • Використані гармонізовані стандарти	EN ISO 5395-2013 (Garden Equipment Safety) EN ISO 14982:2009 (EMC) EN ISO 3744:2010 (Sound Power) EN ISO 3746:2010 (Sound Pressure) EN 1032:2003+A1:2008 (Vibration W/B) EN ISO 20643:2008 (Vibration H/A)
Technical standards and specifications used • Използвани технически стандарти и спецификации • Použité technické normy a specifikace • Brugte tekniske standarder og specifikationer • Gebruikte technische standaards en specificaties • Kasutatud tehnilised standardid ja spetsifikatsioonid • Käytetyt tekniset standardit ja eritelmät • Spécifications et normes techniques utilisées • Angewandte technische Normen und Spezifikationen • Τεχνικά πρότυπα και προδιαγραφές που χρησιμοποιήθηκαν • Műszaki szabványok és specifikációk • Standard tecnici e specifiche applicati • Izmantotie tehniskie standarti un specifikācijas • Panaudoti techniniai standartai ir techninė informacija • Standards u speċifikazzjonijiet tekniċi użati • Normy i specyfikacje techniczne powiązane • Normas técnicas e especificações usadas • Standardele tehnice şi specificaţiile utilizate • Použité technické normy a špecifikácie • Uporabljeni tehnični standardi in specifikacije • Estándares y especificaciones técnicas utilizadas • Tekniska standarder och specifikationer som används • Samræmdir staðlar sem notaðir eru • Benyttede • harmoniserte standarder • 所采用的技术标准和规范 • Tæknistaðlar og -kröfur notaðar • 技術規格および仕様書 • 적용되는 기술 표준 및 규격 • Kullanılan teknik standartlar ve şartnameler • Використані технічні стандарти і умови	EN 1033:1996(Vibration H/A) BS ISO 2631-1:1997 (Vibration W/B) ANSI B71.4-2012
The place and date of the declaration • Място и дата на декларацията • Místo a datum prohlášení • Sted og dato for erklæringen • Plaats en datum van de verklaring • Deklaratsiooni väljastamise koht ja kuupäev • Vakuutuksen paikka ja päivämäärä • Lieu et date de la déclaration • Ort und Datum der Erklärung • Τόπος και ημερομηνία δήλωσης • A nyilatkozat kelte (hely és idő) • Luogo e data della dichiarazione • Deklarācijas vieta un datums • Deklaracijos vieta ir data • Il-post u d-data tad-dikjarazzjoni • Miejsce i data wystawienia deklaracji • Local e data da declaração • Locul şi data declaraţiei • Miesto a dátum vyhlásenia • Kraj in datum izjave • Lugar y fecha de la declaración • Plats och datum för deklarationen • Tæknistaðlar og tæknilýsingar sem notaðar eru • Benyttede tekniske standarder og spesifikasjoner • Staður og dagsetning yfirlýsingar • Sted og dato for erklæringen • 声明的地点与日期 • Staður og dagsetning yfirlýsingarinnar • 宣言場所および日付 • 선언 장소 및 일자 • Beyan yeri ve tarihi • Місце і дата укладення декларації	Ransomes Jacobsen Limited West Road, Ransomes Europark, Ipswich, England, IP3 9TT 1st December 2014
Signature of the person empowered to draw up the declaration on behalf of the manufacturer, holds the technical documentation and is authorised to compile the technical file, and who is established in the Community. Подпис на човека, упълномощен да състави декларацията от името на производителя, който поддържащ техническата документация и е оторизиран да изготви техническия файл и е регистриран в общността. Podpis osoby oprávněné sestavit prohlášení jménem výrobce, držet technickou dokumentaci a osoby oprávněné sestavit technické soubory a založené v rámci Evropského společenství. Underskrift af personen, der har fuldmagt til at udarbejde erklæringen på vegne af producenten, der er indehaver af dokumentationen og er bemyndiget til at udarbejde den tekniske journal, og som er baseret i nærområdet. Handtekening van de persoon die bevoegd is de verklaring namens de fabrikant te tekenen, de technische documentatie bewaart en bevoegd is om het technische bestand samen te stellen, en die is gevestigd in het Woongebied. Ühenduse registrisse kantud isiku allkiri, kes on volitatud tootja nimel deklaratsiooni koostama, kes omab tehnilist dokumentatsiooni ja kellel on õigus koostada tehniline toimik. Sen henkilön allekirjoitus, jolla on valmistajan valtuutus vakuutuksen laadintaan, jolla on hallussaan tekniset asiakirjat, joka on valtuutettu laatimaan tekniset asiakirjat ja joka on sijoittautunut yhteisöön. Signature de la personne habilitée à rédiger la déclaration au nom du fabricant, à détenir la documentation technique, à compiler les fichiers techniques et qui est implantée dans la Communauté. 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Assinatura da pessoa com poderes para emitir a declaração em nome do fabricante, que possui a documentação técnica, que está autorizada a compilar o processo técnico e que está estabelecida na Comunidade. Semnătura persoanei împuternicite să elaboreze declaraţia în numele producătorului, care deţine documentaţia tehnică, este autorizată să compileze dosarul tehnic şi este stabilită în Comunitate. Podpis osoby poverenej vystavením vyhlásenia v mene výrobcu, ktorá má technickú dokumentáciu a je oprávnená spracovať technické podklady a ktorá je umiestnená v Spoločenstve. Podpis osebe, pooblaščene za izdelavo izjave v imenu proizvajalca, ki ima tehnično dokumentacijo in lahko sestavlja spis tehnične dokumentacije, ter ima sedež v Skupnosti. Firma de la persona responsable de la declaración en nombre del fabricante, que posee la documentación técnica y está autorizada para recopilar el archivo técnico y que está establecido en la Comunidad. Undertecknas av den som bemyndigad att upprätta deklarationen å tillverkarens vägnar, innehar den tekniska dokumentationen och är bemyndigad att sammanställa den tekniska informationen och som är etablerad i gemenskapen. Undirskrift aðilans sem hefur umboð til að gera yfirlýsinguna fyrir hönd framleiðandans, hefur undir höndum tæknigögnin og hefur leyfi til að taka saman tæknisk‌ýrsluna, og er viðurkenndur innan evrópska efnahagssvæðisins. Signaturen til personen som har fullmakt til å utferdige erklæringen på vegne av produsenten, er i besittelse av den tekniske dokumentasjonen, har autorisasjon til å utarbeide den tekniske filen og som har tilhold i EU. 获得授权代表制造商起草声明者的签名，此人保留技术文档并获授权编译技术文件，且是社区中获得认可者。 Undirskrift starfsmanns sem hefur heimild til að rita yfirlýsinguna fyrir hendi framleiðandans, hefur umsjón með tæknigögnum og hefur heimild til að setja saman tæknilega skýrslu og sem er tengdur inn í samfélagið. メーカーを代表して宣言書を起草し、技術文書を保有し技術ファイルを編集する権限を有し、地域において確固たる地位を築いている人物の署名。 제조자를 대신하여 선언서를 작성하도록 위임받은 서명자는 기술 문서를 보유하고 기술 자료 수집의 허가를 받았으며 지역 공동체 내에 속해 있습니다 İmalatçı adına beyanı hazırlama yetkisi olan, teknik dokümantasyonu elinde bulunduran ve teknik dosyayı derleme yetkisine sahip, Topluluk içinde yerleşik kişinin imzası. Підпис особи, що уповноважена укласти декларацію від імені виробника, має технічну документацію, уповноважена укласти технічний паспорт і має добру репутацію в суспільстві.	C. D. Clifford Engineering Director 1st December 2014 Ransomes Jacobsen Limited West Road, Ransomes Europark, Ipswich, England, IP3 9TT
Certificate Number • Номер на сертификат • Číslo osvědčení • Certifikatnummer • Certificaatnummer • Sertifikaadi number • Hyväksyntänumero • Numéro de certificat • Bescheinigungsnummer • Αριθμός Πιστοποιητικού • Hitelesítési szám • Numero del certificato • Sertifikāta numurs • Sertifikato numeris • Numru taċ-Ċertifikat • Numer certyfikatu • Número do Certificado • Număr certificat • Číslo osvedčenia • Številka certifikata • Número de certificado • Certifikatsnummer • Númer skírteinis • Sertifikatnummer • 证书编号 • Skírteinisnúmer • 認証番号 • 인증 번호 • Sertifika Numarası • Номер сертифіката	4324487 (rev.0)

GB United Kingdom · BE Belgium · BG Bulgaria · CH Switzerland · CN China · CY Cyprus · CZ Czech Republic · DE Germany · DK Denmark · EE Estonia · ES Spain · FI Finland · FR France · GR Greece · HU Hungary · IS Iceland · IT Italy

JP Japan · KR Korea · LI Liechenstein · LT Lithuania · LV Latvia · MT Malta · NL Netherlands · NO Norway · PL Poland · PT Portugal · RO Romania · RU Russia · SE Sweden · SI Slovenia · SK Slovakia · TR Turkey · UA Ukrain

12 SPECIFICATIONS

DECLARATION OF INCORPORATION ▪ ДЕКЛАРАЦИЯ ЗА ОБЕДИНЕНИЕ ▪ PROHLÁŠENÍ O ZALOŽENÍ SPOLEČNOSTI ▪ INKORPORERINGSERKLÆRING ▪ INCORPORATIEVERKLARING ▪ KINNITUS ÜHENDAMISE KOHTA ▪ ASENNUSTODISTUS ▪ DECLARATION D'INCORPORATION ▪ EINBAUBESCHEINIGUNG ▪ ΔΗΛΩΣΗ ΜΗ ΣΥΜΜΟΡΦΩΣΗΣ ▪ BEÉPÍTÉSI NYILATKOZAT ▪ DICHIARAZIONE DI INCORPORAZIONE ▪ NOFORMĒŠANAS DEKLARĀCIJA ▪ PRIJUNGIMO DEKLARACIJA ▪ DIKJARAZZJONI TA' INKORPORAZZJONI ▪ DEKLARACJA ZGODNOŚCI DLA PODZESPOŁU ▪ DECLARAÇÃO DE INCORPORAÇÃO ▪ DECLARAŢIE DE ÎNCORPORARE ▪ VYHLÁSENIE O ZABUDOVANÍ SÚČASTI ▪ IZJAVA ZA VGRADNJO ▪ DECLARACIÓN DE INCORPORACIÓN ▪ INBYGGNADSDEKLARATION ▪ YFIRLÝSING UM ÍSETNINGU ▪ PRODUSENTENS ERKLÆRING

Business name and full address of the manufacturer • Търговско име и пълен адрес на производителя • Obchodní jméno a plná adresa výrobce • Producentens firmanavn og fulde adresse • Bedrijfsnaam en volledig adres van de fabrikant • Tootja ärinimi ja täielik aadress • Valmistajan toiminimi ja täydellinen osoite • Nom commercial et adresse complète du fabricant • Firmenname und vollständige Adresse des Herstellers • Επωνυμία και ταχυδρομική διεύθυνση κατασκευαστή • A gyártó üzleti neve és teljes címe • Ragione sociale e indirizzo completo del fabbricante • Uzņēmuma nosaukums un pilna ražotāja adrese • Verslo pavadinimas ir pilnas gamintojo adresas • Isem kummerċjali u indirizz sħiħ tal-fabbrikant • Nazwa firmy i pełny adres producenta • Nome da empresa e endereço completo do fabricante • Denumirea comercială şi adresa completă a producătorului • Obchodný názov a úplná adresa výrobcu • Naziv podjetja in polni naslov proizvajalca • Nombre de la empresa y dirección completa del fabricante • Tillverkarens företagsnamn och kompletta adress • Fyrirtækisheiti og fullt heimilisfang framleiðanda. • Firmanavn og full adresse for produsenten.	Ransomes Jacobsen Limited West Road, Ransomes Europark, Ipswich, England, IP3 9TT

Description and identification of the partly completed machinery. • Описание и идентификация на частично завършените машини. • Popis a identifikace částečně dokončeného strojního zařízení.
• Beskrivelse og identifikation af den delvist fremstillede maskine. • Beschrijving en identificatie van de gedeeltelijk voltooide machinerie. • Osaliselt komplekteeritud masina kirjeldus ja määratlus.
• Osittain kootun laitteiston kuvaus ja määrittely. • Description et identification de la quasi-machine. • Bezeichnung und Identifizierung der teilgefertigten Vorrichtung • Περιγραφή και προσδιορισμός ημιτελούς μηχανήματος • A részlegesen megépített gép leírása és meghatározása. • Descrizione e identificazione della quasi-macchina • Daļēji pabeigtas iekārtas apraksts un identifikācija. • Dalinai užbaigtos įrangos aprašymas ir identifikacija. • Deskrizzjoni u identifikazzjoni tal-makkinarju li jkun lest parzjalment. • Opis i oznaczenie częściowo ukończonego urządzenia • Descrição e identificação do equipamento parcial • Descrierea şi identificarea echipamentului finalizat parţial • Opis a identifikácia podzostavy strojného zariadenia • Opis in identifikacija delno dokončanega stroja. • Descripción e identificación de la maquinaria parcialmente completada. • Beskrivning och identifiering av maskindelarna. • Fyrirtækisheiti og fullt heimilisfang framleiðanda. • Lýsing og auðkenni hálfsamsetta vélbúnaðarins. • Erklæring og identifikasjon for det delvis ferdigstilte maskineriet.

Product Code	Serial Number	Description
LMAB029	YD	Trailing Seat

Partly completed machinery must not be put into service until the final machinery into which it is to be incorporated has been declared in conformity with the provisions of Directive 2006/42/EC.	These accessories have been designed to be fitted to the Ransomes Mastiff 91 LDEA230 / LDEA240 LDEA330 / LDEA340
Частично завършените машини не трябва да бъдат пускана в употреба, докато крайните машини, в които са вградени, не са приведени в съответствие с постановленията на директива 2006/42/ЕО.	
Částečně dokončené zařízení nesmí být uvedeno do provozu, dokud konečné zařízení, do kterého bylo uvedené zařízení namontováno, neodpovídá ustanovením Směrnice č. 2006/42/EC.	
Delvist fremstillede maskiner må ikke indsættes i driften, før den endelige maskine, som den skal inkorporeres i, er blevet erklæret I overensstemmelse med bestemmelserne i Direktiv 2006/42/EF.	
Gedeeltelijk voltooide machinerie mag niet in dienst worden genomen, totdat er voor de definitieve machinerie, waarvan gedeeltelijk voltooide machinerie onderdeel uitmaakt, een conformiteitsverklaring is ontvangen onder de voorwaarden van Richtlijn 2006/42/EG.	
Osaliselt komplekteeritud masinat ei tohi kasutusele võtta enne, kui lõplikult komplekteeritud masin, millega see ühendatakse, on tunnistatud direktiivi 2006/42/EÜ sätetele vastavaks.	
Osittain koottua laitteistoa ei saa ottaa käyttöön, ennen kuin lopullinen laitteisto, johon se asennetaan, on vakuutettu direktiivin 2006/42/EY säännösten mukaiseksi.	
La quasi-machine ne doit pas être mise en service avant que la machine finale dans laquelle elle doit être incorporée n'ait été déclarée conforme aux dispositions de la directive 2006/42/CE	
Die teilgefertigte Vorrichtung darf erst in Betrieb genommen werden, wenn die Konformität der Maschine, in die sie eingebaut wird, entsprechend den Bestimmungen der Richtlinie 2006/42/EG erklärt worden ist.	
Θα πρέπει να εκτελεστεί σέρβις στο ημιτελές μηχάνημα μέχρι το τελικό μηχάνημα στο οποίο θα ενσωματωθεί να έχει τη δήλωση συμμόρφωσης, σύμφωνα με τις διατάξεις της Οδηγίας 2006/42/ΕΚ.	
A részlegesen megépített gépet tilos üzembe helyezni mindaddig, amíg a 2006/42/EK irányelv rendelkezéseivel összhangban a részlegesen megépített gépet be nem építik a végleges változatba, és erről nem nyilatkoznak.	
La quasi-macchina non deve essere messa in servizio finché la macchina finale in cui deve essere incorporata non è stata dichiarata conforme, nel caso, alle disposizioni della Direttiva 2006/42/CE.	
Daļēji pabeigtu iekārtu nedrīkst nodot ekspluatācijā, līdz galīgā iekārta, kurā tā ir jāiebūvē, ir deklarēta atbilstoši direktīvas Nr. 2006/42/EK noteikumiem.	
Dalinai užbaigto mechanizmo negalima paleisti kol kiti mechanizmai, kurie dar bus prijungti, nebus patvirtinti kaip atitinkantys 2006/42/EC Direktyvos reikalavimus.	
Il-makkinarju li jkun parzjalment lest ma għandux jibda jithaddem sakemm il-makkinarju finali li fih ikun se jiġi inkorporat ikun ġie ddikjarat konformi mad-dispożizzjonijiet tad-Direttiva 2006/42/KE.	
Urządzenia częściowo ukończonego nie wolno użytkować aż do orzeczenia zgodności urządzenia w postaci kompletnej z wymaganiami dyrektywy 2006/42/WE.	
O equipamento parcial não poderá entrar em funcionamento antes do mecanismo final no qual vai ser incorporado ser declarado como estando em conformidade com as condições da Directiva 2006/42/CE.	
Echipamentul finalizat parţial nu trebuie pus în funcţiune până ce echipamentul final în care va fi încorporat nu este declarat ca fiind conform cu prevederile Directivei 2006/42/CE.	
Podzostava strojného zariadenia nesmie byť uvedená do prevádzky, pokiaľ finálne strojné zariadenie, ktorého sa stane súčasťou, nebude vyhlásené ako zhodné s ustanoveniami smernice 2006/42/ES.	
Delno dokončanega stroja ni dovoljeno dati v obratovanje, dokler se dokončani stroj, v katerega se vgradi delno dokončani stroj, ne potrdi kot skladen z določbami Direktive 2006/42/ES.	
La maquinaria parcialmente completada no debe ponerse en servicio hasta que la maquinaria final a la que debe incorporarse cumpla con las provisiones de la Directiva 2006/42/CE.	
Maskindelarna får ej tas i bruk förrän maskinen som delen tillhör har deklarerats som överensstämmande med föreskrifterna I direktivet 2006/42/EG.	
Hálfsamsettan vélbúnað má ekki taka í notkun fyrr en vottað hefur verið að endanlegi vélbúnaðurinn sem setja á hann í samræmist ákvæðum tilskipunar 2006/42/EC. Delvis ferdigstilt maskineri skal ikke tas i bruk før det endelige maskineriet som dette skal integreres i, er erklært å være i overensstemmelse med bestemmelsene i direktiv 2006/42/EF.	
The place and date of the declaration • Място и дата на декларацията • Místo a datum prohlášení • Sted og dato for erklæringen • Plaats en datum van de verklaring • Deklaratsiooni väljastamise koht ja kuupäev • Vakuutuksen paikka ja päivämäärä • Lieu et date de la déclaration • Ort und Datum der Erklärung • Τόπος και ημερομηνία δήλωσης • A nyilatkozat kelte (hely és idő) • Luogo e data della dichiarazione • Deklarācijas vieta un datums • Deklaracijos vieta ir data • Il-post u d-data tad-dikjarazzjoni • Miejsce i data wydania deklaracji • Local e data da declaração • Locul şi data declaraţiei • Miesto a dátum vyhlásenia • Slovenian • Lugar y fecha de la declaración • Plats och datum för deklarationen • Staður og dagsetning yfirlýsingar • Sted og dato for erklæringen	Ransomes Jacobsen Limited West Road, Ransomes Europark, Ipswich, England, IP3 9TT 1st December 2014
Signature of the person empowered to draw up the declaration on behalf of the manufacturer, holds the technical documentation and is authorised to compile the technical file, and who is established in the Community.	C D Clifford Engineering Director 1st December 2014 Ransomes Jacobsen Limited West Road, Ransomes Europark, Ipswich, England, IP3 9TT
Подпис на човека, упълномощен да състави декларацията от името на производителя, който поддържащ техническата документация и е оторизиран да изготви технический файл и е регистриран в общността.	
Podpis osoby oprávněné sestavit prohlášení jménem výrobce, držet technickou dokumentaci a osoby oprávněné sestavit technické soubory a založené v rámci Evropského společenství.	
Underskrift af personen, der har fuldmagt til at udarbejde erklæringen på vegne af producenten, der er indehaver af dokumentationen og er bemyndiget til at udarbejde den tekniske journal, og som er baseret på stedet.	
Handtekening van de persoon die bevoegd is de verklaring namens de fabrikant te tekenen, de technische documentatie bewaart en bevoegd is om het technische bestand samen te stellen, en die is gevestigd in het Woongebied.	
Ühenduse registrisse kantud isiku allkiri, kes on volitatud tootja nimel deklaratsiooni koostama, kes omab tehnilist dokumentatsiooni ja kellel on õigus koostada tehniline toimik.	
Sen henkilön allekirjoitus, jolla on valmistajan valtuutus vakuutuksen laadintaan, jolla on hallussaan tekniset asiakirjat, joka on valtuutettu laatimaan tekniset asiakirjat ja joka on sijoittautunut yhteisöön.	
Signature de la personne habilitée à rédiger la déclaration au nom du fabricant, à détenir la documentation technique, à compiler les fichiers techniques et qui est implantée dans la Communauté.	
Unterschrift der Person, die berechtigt ist, die Erklärung im Namen des Herstellers abzugeben, die die technischen Unterlagen aufbewahrt und berechtigt ist, die technischen Unterlagen zusammenzustellen, und die in der Gemeinschaft niedergelassen ist.	
Υπογραφή ατόμου εξουσιοδοτημένου για την σύνταξη της δήλωσης εκ μέρους του κατασκευαστή, ο οποίος κατέχει την τεχνική έκθεση και έχει την εξουσιοδότηση να ταξινομήσει τον τεχνικό φάκελο και ο οποίος είναι διορισμένος στην Κοινότητα.	
A gyártó nevében meghatalmazott személy, akinek jogában áll módosítania a nyilatkozatot, a műszaki dokumentációt őrzi, engedéllyel rendelkezik a műszaki fájl összeállításához és a közösségben letelepedett személy.	
Firma della persona autorizzata a redigere la dichiarazione a nome del fabbricante, in possesso della documentazione tecnica ed autorizzata a costituire il fascicolo tecnico, che deve essere stabilita nella Comunità.	
Tās personas paraksts, kura ir pilnvarota deklarācijas sastādīšanai ražotāja vārdā, kurai ir tehniskā dokumentācija, kura ir pilnvarota sagatavot tehnisko reģistru un kura ir apstiprināta Kopienā.	
Asmuo, kuris yra gana žinomas, kuriam gamintojas suteikė įgaliojimus sudaryti šią deklaraciją, ir kuris įą pasirašė, turi visą techninę informaciją ir yra įgaliotas sudaryti techninės informacijos dokumentą.	
Il-firma tal-persuna awtorizzata li tfassal id-dikjarazzjoni f'isem il-fabbrikant, għandha d-dokumentazzjoni teknika u hija awtorizzata li tikkompila l-fajl tekniku u li hija stabbilita fil-Komunità.	
Podpis osoby upoważnionej do sporządzenia deklaracji w imieniu producenta, przechowującej dokumentację techniczną, upoważnioną do stworzenia dokumentacji technicznej oraz wyznaczonej ds. wspólnotowych.	
Assinatura da pessoa com poderes para emitir a declaração em nome do fabricante, que possui a documentação técnica, que está autorizada a compilar o processo técnico e que está estabelecida na Comunidade.	
Semnătura persoanei împuternicite să elaboreze declaraţia în numele producătorului, care deţine documentaţia tehnică, este autorizată să compileze dosarul tehnic şi este stabilită în Comunitate.	
Podpis osoby poverenej vystavením vyhlásenia v mene výrobcu, ktorá má technickú dokumentáciu a je oprávnená spracovať technické podklady a ktorá je umiestnená v Spoločenstve.	
Podpis osebe, pooblaščene za izdelavo izjave v imenu proizvajalca, ki ima tehnično dokumentacijo in lahko sestavlja spis tehnične dokumentacije, ter ima sedež v Skupnosti.	
Firma de la persona responsable de la declaración en nombre del fabricante, que posee la documentación técnica y está autorizada para recopilar el archivo técnico y que está establecido en la Comunidad.	
Undertecknas av någon som bemyndigad att upprätta deklarationen å tillverkarens vägnar, innehar den tekniska dokumentationen och är bemyndigad att sammanställa den tekniska informationen och som är etablerad i gemenskapen.	
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Certificate Number • Номер на сертификат • Číslo osvědčení • Certifikatnummer • Certificaatnummer • Sertifikaadi number • Hyväksyntänumero • Numéro de certificat • Bescheinigungsnummer • Αριθμός Πιστοποιητικού • Hitelesítési szám • Numero del certificato • Sertifikāta numurs • Sertifikato numeris • Numru taċ-Ċertifikat • Numer certyfikatu • Número do Certificado • Numár certificat • Číslo osvedčenia • Številka certifikata • Número de certificado • Certifikatsnummer • Númer skírteinis • Sertifikatnummer	MBG5208 (rev.5)

GB United Kingdom · BG Bulgaria · CH Switzerland · CZ Czech Republic · DK Denmark · NL Netherlands · EE Estonia · ES Spain · FI Finland · FR France · DE Germany · GR Greece · HU Hungary

IS Iceland · IT Italy · LI Liechtenstein · LV Latvia · LT Lithuania · MT Malta · NO Norway · PL Poland · PT Portugal · RO Romania · SE Sweden · SK Slovakia · SI Slovenia

DECLARATION OF INCORPORATION ▪ ДЕКЛАРАЦИЯ ЗА ОБЕДИНЕНИЕ ▪ PROHLÁŠENÍ O ZALOŽENÍ SPOLEČNOSTI ▪ INKORPORERINGSERKLÆRING ▪ INCORPORATIEVERKLARING ▪ KINNITUS ÜHENDAMISE KOHTA ▪ ASENNUSTODISTUS ▪ DECLARATION D'INCORPORATION ▪ EINBAUBESCHEINIGUNG ▪ ΔΗΛΩΣΗ ΜΗ ΣΥΜΜΟΡΦΩΣΗΣ ▪ BEÉPÍTÉSI NYILATKOZAT ▪ DICHIARAZIONE DI INCORPORAZIONE ▪ NOFORMĒŠANAS DEKLARĀCIJA ▪ PRIJUNGIMO DEKLARACIJA ▪ DIKJARAZZJONI TA' INKORPORAZZJONI ▪ DEKLARACJA ZGODNOŚCI DLA PODZESPOŁU ▪ DECLARAÇÃO DE INCORPORAÇÃO ▪ DECLARAŢIE DE ÎNCORPORARE ▪ VYHLÁSENIE O ZABUDOVANÍ SÚČASTI ▪ IZJAVA ZA VGRADNJO ▪ DECLARACIÓN DE INCORPORACIÓN ▪ INBYGGNADSDEKLARATION ▪ YFIRLÝSING UM ÍSETNINGU ▪ PRODUSENTENS ERKLÆRING

Business name and full address of the manufacturer • Търговско име и пълен адрес на производителя • Obchodní jméno a plná adresa výrobce • Producentens firmanavn og fulde adresse • Bedrijfsnaam en volledig adres van de fabrikant • Tootja ärinimi ja täielik aadress • Valmistajan toiminimi ja täydellinen osoite • Nom commercial et adresse complète du fabricant • Firmenname und vollständige Adresse des Herstellers • Επωνυμία και ταχυδρομική διεύθυνση κατασκευαστή • A gyártó üzleti neve és teljes címe • Ragione sociale e indirizzo completo del fabbricante • Uzņēmuma nosaukums un pilna ražotāja adrese • Verslo pavadinimas ir pilnas gamintojo adresas • Isem kummerċjali u indirizz sħiħ tal-fabbrikant • Nazwa firmy i pełny adres producenta • Nome da empresa e endereço completo do fabricante • Denumirea comercială şi adresa completă a producătorului • Obchodný názov a úplná adresa výrobcu • Naziv podjetja in polni naslov proizvajalca • Nombre de la empresa y dirección completa del fabricante • Tillverkarens företagsnamn och kompletta adress • Fyrirtækisheiti og fullt heimilisfang framleiðanda. • Firmanavn og full adresse for produsenten.	Ransomes Jacobsen Limited West Road, Ransomes Europark, Ipswich, England, IP3 9TT

Description and identification of the partly completed machinery. • Описание и идентификация на частично завършените машини. • Popis a identifikace částečně dokončeného strojního zařízení.
• Beskrivelse og identifikation af den delvist fremstillede maskine. • Beschrijving en identificatie van de gedeeltelijk voltooide machinerie. • Osaliselt komplekteeritud masina kirjeldus ja määratlus.
• Osittain kootun laitteiston kuvaus ja määrittely. • Description et identification de la quasi-machine. • Bezeichnung und Identifizierung der teilgefertigten Vorrichtung • Περιγραφή και προσδιορισμός ημιτελούς μηχανήματος. • A részlegesen megépített gép leírása és meghatározása. • Descrizione e identificazione della quasi-macchina • Daļēji pabeigtas iekārtas apraksts un identifikācija. • Dalinai užbaigtos įrangos aprašymas ir identifikacija. • Deskrizzjoni u identifikazzjoni tal-makkinarju li jkun lest parzjalment. • Opis i oznaczenie częściowo ukończonego urządzenia • Descrição e identificação do equipamento parcial • Descrierea şi identificarea echipamentului finalizat parţial • Opis a identifikácia podzostavy strojného zariadenia • Opis in identifikacija delno dokončanega stroja. • Descripción e identificación de la maquinaria parcialmente completada. • Beskrivning och identifiering av maskindelarna. • Fyrirtækisheiti og fullt heimilisfang framleiðanda. • Lýsing og auðkenni hálfsamsetta vélbúnaðarins. • Erklæring og identifikasjon for det delvis ferdigstilte maskineriet.

Product Code	Serial Number	Description
LMAC253	FT	Steering Seat

Partly completed machinery must not be put into service until the final machinery into which it is to be incorporated has been declared in conformity with the provisions of Directive 2006/42/EC.	These accessories have been designed to be fitted to the Ransomes Mastiff 91 LDEA230 / LDEA240
Частично завършените машини не трябва да бъдат пускана в употреба, докато крайните машини, в които са вградени, не са приведени в съответствие с постановленията на директива 2006/42/ЕО.	
Částečně dokončené zařízení nesmí být uvedeno do provozu, dokud konečné zařízení, do kterého bylo uvedené zařízení namontováno, neodpovídá ustanovením Směrnice č. 2006/42/EC.	
Delvist fremstillede maskiner må ikke indsættes i driften, før den endelige maskine, som den skal inkorporeres i, er blevet erklæret I overensstemmelse med bestemmelserne i Direktiv 2006/42/EF.	
Gedeeltelijk voltooide machinerie mag niet in dienst worden genomen, totdat er voor de definitieve machinerie, waarvan gedeeltelijk voltooide machinerie onderdeel uitmaakt, een conformiteitsverklaring is ontvangen onder de voorwaarden van Richtlijn 2006/42/EG.	
Osaliselt komplekteeritud masinat ei tohi kasutusele võtta enne, kui lõplikult komplekteeritud masin, millega see ühendatakse, on tunnistatud direktiivi 2006/42/EÜ sätetele vastavaks.	
Osittain koottua laitteistoa ei saa ottaa käyttöön, ennen kuin lopullinen laitteisto, johon se asennetaan, on vakuutettu direktiivin 2006/42/EY säännösten mukaiseksi.	
La quasi-machine ne doit pas être mise en service avant que la machine finale dans laquelle elle doit être incorporée n'ait été déclarée conforme aux dispositions de la directive 2006/42/CE	
Die teilgefertigte Vorrichtung darf erst in Betrieb genommen werden, wenn die Konformität der Maschine, in die sie eingebaut wird, entsprechend den Bestimmungen der Richtlinie 2006/42/EG erklärt worden ist.	
Θα πρέπει να εκτελεστεί σέρβις στο ημιτελές μηχάνημα μέχρι το τελικό μηχάνημα στο οποίο θα ενσωματωθεί να έχει τη δήλωση συμμόρφωσης, σύμφωνα με τις διατάξεις της Οδηγίας 2006/42/ΕΚ.	
A részlegesen megépített gépet tilos üzembe helyezni mindaddig, amíg a 2006/42/EK irányelv rendelkezéseivel összhangban a részlegesen megépített gépet be nem építik a végleges változatba, és erről nem nyilatkoznak.	
La quasi-macchina non deve essere messa in servizio finché la macchina finale in cui deve essere incorporata non è stata dichiarata conforme, nel caso, alle disposizioni della Direttiva 2006/42/CE.	
Daļēji pabeigtu iekārtu nedrīkst nodot ekspluatācijā, līdz galīgā iekārta, kurā tā ir jāiebūvē, ir deklarēta atbilstoši direktīvas Nr. 2006/42/EK noteikumiem.	
Dalinai užbaigto mechanizmo negalima paleisti kol kiti mechanizmai, kurie dar bus prijungti, nebus patvirtinti kaip atitinkantys 2006/42/EC Direktyvos reikalavimus.	
Il-makkinarju li jkun parzjalment lest ma għandux jibda jitħaddem sakemm il-makkinarju finali li fih ikun se jiġi inkorporat ikun ġie ddikjarat konformi mad-dispożizzjonijiet tad-Direttiva 2006/42/KE.	
Urządzenia częściowo ukończonego nie wolno użytkować aż do orzeczenia zgodności urządzenia w postaci kompletnej z wymaganiami dyrektywy 2006/42/WE.	
O equipamento parcial não poderá entrar em funcionamento antes do mecanismo final no qual vai ser incorporado ser declarado como estando em conformidade com as condições da Directiva 2006/42/CE.	
Echipamentul finalizat parțial nu trebuie pus în funcțiune până ce echipamentul final în care va fi încorporat nu este declarat ca fiind conform cu prevederile Directivei 2006/42/CE.	
Podzostava strojného zariadenia nesmie byť uvedená do prevádzky, pokiaľ finálne strojné zariadenie, ktorého sa stane súčasťou, nebude vyhlásené ako zhodné s ustanoveniami smernice 2006/42/ES.	
Delno dokončanega stroja ni dovoljeno dati v obratovanje, dokler se dokončani stroj, v katerega se vgradi delno dokončani stroj, ne potrdi kot skladen z določbami Direktive 2006/42/ES.	
La maquinaria parcialmente completada no debe ponerse en servicio hasta que la maquinaria final a la que debe incorporarse cumpla con las provisiones de la Directiva 2006/42/CE.	
Maskindelarna får ej tas i bruk förrän maskinen som delen tillhör har deklarerats som överensstämmande med föreskrifterna I direktivet 2006/42/EG.	
Hálfsamsettan vélbúnað má ekki taka í notkun fyrr en vottað hefur verið að endanlegi vélbúnaðurinn sem setja á hann í samræmist ákvæðum tilskipunar 2006/42/EC. Delvis ferdigstilt maskineri skal ikke tas i bruk før det endelige maskineriet som dette skal integreres i, er erklært å være i overensstemmelse med bestemmelsene i direktiv 2006/42/EF.	
The place and date of the declaration • Място и дата на декларацията • Místo a datum prohlášení • Sted og dato for erklæringen • Plaats en datum van de verklaring • Deklaratsiooni väljastamise koht ja kuupäev • Vakuutuksen paikka ja päivämäärä • Lieu et date de la déclaration • Ort und Datum der Erklärung • Τόπος και ημερομηνία δήλωσης • A nyilatkozat kelte (hely és idő) • Luogo e data della dichiarazione • Deklarācijas vieta un datums • Deklaracijos vieta ir data • Il-post u d-data tad-dikjarazzjoni • Miejsce i data wydania deklaracji • Local e data da declaração • Locul și data declarației • Miesto a dátum vyhlásenia • Slovenian • Lugar y fecha de la declaración • Plats och datum för deklarationen • Staður og dagsetning yfirlýsingar • Sted og dato for erklæringen	Ransomes Jacobsen Limited West Road, Ransomes Europark, Ipswich, England, IP3 9TT 1st October 2014
Signature of the person empowered to draw up the declaration on behalf of the manufacturer, holds the technical documentation and is authorised to compile the technical file, and who is established in the Community.	 C D Clifford Engineering Director 1st October 2014 Ransomes Jacobsen Limited West Road, Ransomes Europark, Ipswich, England, IP3 9TT
Подпис на човека, упълномощен да състави декларацията от името на производителя, който поддържащ техническата документация и е оторизиран да изготви техническия файл и е регистриран в общността.	
Podpis osoby oprávněné sestavit prohlášení jménem výrobce, držet technickou dokumentaci a osoby oprávněné sestavit technické soubory a založené v rámci Evropského společenství.	
Underskrift af personen, der har fuldmagt til at udarbejde erklæringen på vegne af producenten, der er indehaver af dokumentationen og er bemyndiget til at udarbejde den tekniske journal, og som er baseret på stedet.	
Handtekening van de persoon die bevoegd is de verklaring namens de fabrikant te tekenen, de technische documentatie bewaart en bevoegd is om het technische bestand samen te stellen, en die is gevestigd in het Woongebied.	
Ühenduse registrisse kantud isiku allkiri, kes on volitatud tootja nimel deklaratsiooni koostama, kes omab tehnilist dokumentatsiooni ja kellel on õigus koostada tehniline toimik.	
Sen henkilön allekirjoitus, jolla on valmistajan valtuutus vakuutuksen laadintaan, jolla on hallussaan tekniset asiakirjat, joka on valtuutettu laatimaan tekniset asiakirjat ja joka on sijoittautunut yhteisöön.	
Signature de la personne habilitée à rédiger la déclaration au nom du fabricant, à détenir la documentation technique, à compiler les fichiers techniques et qui est implantée dans la Communauté.	
Unterschrift der Person, die berechtigt ist, die Erklärung im Namen des Herstellers abzugeben, die die technischen Unterlagen aufbewahrt und berechtigt ist, die technischen Unterlagen zusammenzustellen, und die in der Gemeinschaft niedergelassen ist.	
Υπογραφή ατόμου εξουσιοδοτημένου για την σύνταξη της δήλωσης εκ μέρους του κατασκευαστή, ο οποίος κατέχει την τεχνική έκθεση και έχει την εξουσιοδότηση να ταξινομήσει τον τεχνικό φάκελο και ο οποίος είναι διορισμένος στην Κοινότητα.	
A gyártó nevében meghatalmazott személy, akinek jogában áll módosítania a nyilatkozatot, a műszaki dokumentációt őrzi, engedéllyel rendelkezik a műszaki fájl összeállításához és a közösségben letelepedett személy.	
Firma della persona autorizzata a redigere la dichiarazione a nome del fabbricante, in possesso della documentazione tecnica ed autorizzata a costituire il fascicolo tecnico, che deve essere stabilita nella Comunità.	
Tās personas paraksts, kura ir pilnvarota deklarācijas sastādīšanai ražotāja vārdā, kurai ir tehniskā dokumentācija, kura ir pilnvarota sagatavot tehnisko reģistru un kura ir apstiprināta Kopienā.	
Asmuo, kuris yra gana žinomas, kuriam gamintojas suteikė įgaliojimus sudaryti šią deklaraciją, ir kuris įą pasirašė, turi visą techninę informaciją ir yra įgaliotas sudaryti techninės informacijos dokumentą.	
Il-firma tal-persuna awtorizzata li tfassal id-dikjarazzjoni f'isem il-fabbrikant, għandha d-dokumentazzjoni teknika u hija awtorizzata li tikkompila l-fajl tekniku u li hija stabbilita fil-Komunità.	
Podpis osoby upoważnionej do sporządzenia deklaracji w imieniu producenta, przechowującej dokumentację techniczną, upoważnioną do stworzenia dokumentacji technicznej oraz wyznaczonej ds. wspólnotowych.	
Assinatura da pessoa com poderes para emitir a declaração em nome do fabricante, que possui a documentação técnica, que está autorizada a compilar o processo técnico e que está estabelecida na Comunidade.	
Semnătura persoanei împuternicite să elaboreze declarația în numele producătorului, care deține documentația tehnică, este autorizată să compileze dosarul tehnic şi este stabilită în Comunitate.	
Podpis osoby poverenej vystavením vyhlásenia v mene výrobcu, ktorá má technickú dokumentáciu a je oprávnená spracovať technické podklady a ktorá je umiestnená v Spoločenstve.	
Podpis osebe, pooblaščene za izdelavo izjave v imenu proizvajalca, ki ima tehnično dokumentacijo in lahko sestavlja spis tehnične dokumentacije, ter ima sedež v Skupnosti.	
Firma de la persona responsable de la declaración en nombre del fabricante, que posee la documentación técnica y está autorizada para recopilar el archivo técnico y que está establecido en la Comunidad.	
Undertecknas av någon som bemyndigad att upprätta deklarationen å tillverkarens vägnar, innehar den tekniska dokumentationen och är bemyndigad att sammanställa den tekniska informationen och som är etablerad i gemenskapen.	
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IS Iceland · IT Italy · LI Liechtenstein · LV Latvia · LT Lithuania · MT Malta · NO Norway · PL Poland · PT Portugal · RO Romania · SE Sweden · SK Slovakia · SI Slovenia

13 GUARANTEE

WARRANTY

Warranty is subject to specific terms and conditions, e.g. wearing parts, unapproved modifications, etc. are not included. For a full set of warranty conditions, contact your local dealer or distributor.

SERVICE

A network of authorised Sales and Service dealers has been established and these details are available from your supplier.

When service attention, or spares, are required for the machine, within or after the warranty period your supplier or any authorised dealer should be contacted. Always quote the registered serial number of the machine.

If any damage is apparent when delivery is made, report the details at once to the supplier of the machine.

Europe & Rest of The World Except North & South America

Ransomes Jacobsen Limited
West Road, Ransomes Europark, Ipswich, IP3 9TT
English Company Registration No. 1070731
www.ransomesjacobsen.com

North & South America

Jacobsen, A Textron Company
11108 Quality Drive, Charlotte,
NC 28273, USA
www.Jacobsen.com

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A Textron Company